

DC-DC CONVERTER

Fixed input voltage Part No.	Input Voltage(V)	Output Power(W)	Output Voltage(V)	Output mode	Packaging	Dimension	Shell Material	Isolation Voltage(V)	Page Number		
HDC01S	2.97-3.63, 4.5-5.5, 10.8-13.2, 13.5-16.5, 21.6-26.4	1	3.3, 5, 9, 12, 15, 25, ±5, ±9, ±12, ±15	1	SIP4	11.60x6.00x10.20	plastic	1500	03		
HDC01S HDCE01S		1		1,2	SIP6,SIP7	19.60x6.00x9.60		1500,3000	04/05		
HDC02S HDCE02S		2		1,2	SIP6,SIP7	19.65x7.05x10.16		1500,3000	06/07		
HDC01M		1		1	SMD8	13.70x11.00x6.95		1500	08		
HDCF01S		1		1	SIP7	19.65x7.05x10.16		6000	09		
HDCG01S HDCG02S		1~2		1,2	SIP7	19.50x9.80x12.50		6000	10/11		
HDCQ01S		1		2	SIP7	19.50x9.80x12.50		6000	12		
HDCI01S HDCI02S		1~2		1	SIP6	19.60x6.00x9.60 19.65x7.05x10.16		1500	13/14		
Wide input voltage Part No.		Input Voltage(V)		Output Power(W)	Output Voltage(V)	Output mode		Packaging	Dimension	Shell Material	Isolation Voltage(V)
WDC78-500	32(max)	1.5-7.5		1	SIP3	11.60x7.55x10.16	plastic		15		
WDC78-1000	36(max)	2.5-15		1	SIP3	11.60x7.55x10.16			16		
WDCW02S WDCV02S	4.5-9, 9-18, 18-36, 36-75, 4.5-18, 9-36, 18-75	2	3.3, 5, 12, 15, 24, ±5, ±12, ±15	1,2	SIP6	17.00x9.00x12.00		1500		17/18	
WDCW03S WDCV03S		3		1,2							19/20
WDC01S WDCV01S		1		1,2							21/22
WDC03S WDCV03S		2.5-3		1,2	SIP8	22.00x9.50x12.00			3000	23/24	
WDC03S WDCV03S		3		1,2							25/26
WDC06S WDCV06S		6		1,2							27/28
WDC10S WDCV10S		10		1,2		29/30					
WDC03N WDCV03N		3		1,2	DIP16	23.80x13.70x10.20	1500		31/32		
WDC06N WDCV06N		6		1,2						33/34	
WDC10N WDCV10N		10		1,2					35/36		
WDC03P WDCV03P		3		1,2	DIP24	32.00x20.00x12.00		37/38			
WDC06P WDCV06P		6		1,2					39/40		
WDC10P WDCV10P		10		1,2					41/42		
WDC06Q WDCV06Q		6		1,2	1*1	25.40x25.40x12.00		aluminum alloy	1500	43/44	
WDC10Q WDCV10Q		10		1,2							45/46
WDC15Q WDCV15Q		15		1,2							47/48
WDC20Q WDCV20Q	20	1,2		49/50							
WDC30R WDC40R	30/40	1,2	2*1	50.80x25.40x12.00			51				
WDCV30R	30	1				52					

DC-DC CONVERTER PIN DEFINITION

Vin	+Input
GND	Input grounding
+V0	+Output
COM	Output grounding
-V0	-Output
CTRL	Pins that switch the converter
CASE	Pins that link the metal housing
CS	Capacitors can be externally connected
Trim	Output voltage regulation
-S	Represents the remote compensation of the output voltage (connected to the output ground)
+S	Represents the output voltage remote compensation (connect the output positive terminal)
NC	Nonfunctional Pins
No Pin	No Pins
HV	High Voltage

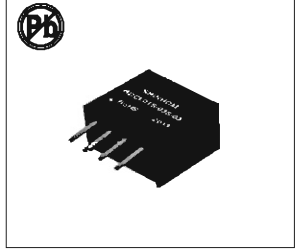
1W DC-DC CONVERTER

FEATURES:

Packaging: SIP4
 Operating Temperature: -40°C - 105°C
 Isolation Voltage: 1500VDC
 Efficiency: The maximum efficiency can reach 89%
 Meet a criterion: International standard pin mode

APPLICATION:

Electric power,
 Industrial control
 communication,
 IoT
 Automobile

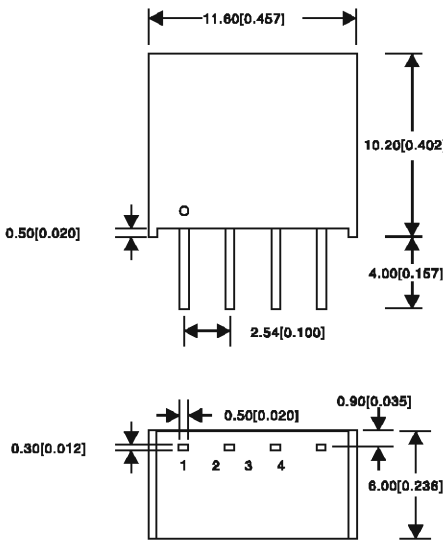


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output			Full Load Efficiency (%Typ)	Capacitive Load_Max (uF)	
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)			
HDCL01S-03S03	3.3 (2.97-3.63)	3.3	0	303	82	4000	
HDCL01S-03S05		5	0	200	83	4000	
HDCL01S-03S09		9	0	111	84	2000	
HDCL01S-03S12		12	0	84	85	1000	
HDCL01S-05S03	5 (4.5-5.5)	3.3	0	303	83	4000	
HDCL01S-05S05		5	0	200	86	4000	
HDCL01S-05S09		9	0	111	86	2000	
HDCL01S-05S12		12	0	84	88	1000	
HDCL01S-05S15	5 (4.5-5.5)	15	0	87	88	680	
HDCL01S-05S24		24	0	42	89	580	
HDCL01S-12S03		12 (10.8-13.2)	3.3	0	303	84	4000
HDCL01S-12S05			5	0	200	86	4000
HDCL01S-12S09	9		0	111	87	2000	

Part Number	Input Voltage(VDC)	Output			Full Load Efficiency (%Typ)	Capacitive Load_Max (uF)
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)		
HDCL01S-12S12	12 (10.8-13.2)	12	0	84	87	1000
HDCL01S-12S15		15	0	87	88	680
HDCL01S-12S24		24	0	42	89	580
HDCL01S-15S05	15 (13.5-16.5)	5	0	200	85	4000
HDCL01S-15S12		12	0	84	89	1000
HDCL01S-15S15	15 (13.5-16.5)	15	0	87	89	680
HDCL01S-24S03		24 (21.6-28.8)	3.3	0	303	84
HDCL01S-24S05	5		0	200	87	4000
HDCL01S-24S09	9		0	111	88	2000
HDCL01S-24S12	12		0	84	88	1000
HDCL01S-24S15	15		0	87	88	680
HDCL01S-24S24	24		0	42	89	580

PHYSICAL CHARACTERISTICS:



Pin	Definition
1	GND
2	Vin
3	-Vo
4	+Vo

NC: Cannot be connected to any external circuit
 Dimensions: in mm
 Terminal diameter tolerance: ±0.10[±0.004]
 Unremarked tolerances: ±0.50[±0.020]

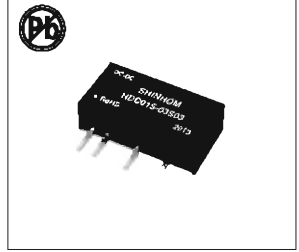
1W DC-DC CONVERTER

FEATURES:

Packaging: SIP6
 Operating Temperature: -40°C - 105°C
 Isolation Voltage: 1500VDC
 Efficiency: The maximum efficiency can reach 89%
 Meet a criterion: International standard pin mode

APPLICATION:

Electric power,
 Industrial control
 communication,
 IoT
 Automobile

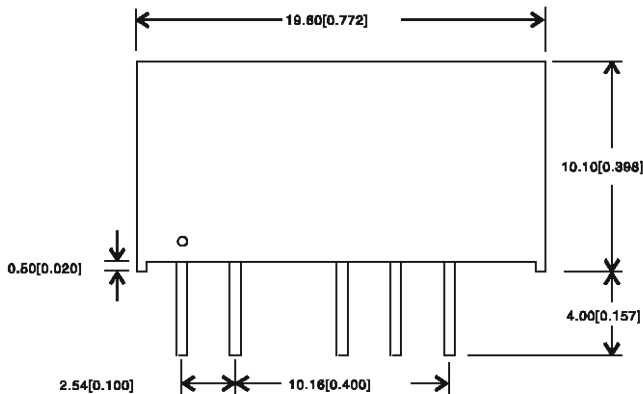


ELECTRICAL CHARACTERISTICS:

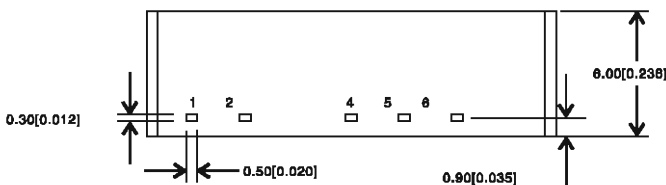
Part Number	Input Voltage(VDC) Rating	Output			Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
		Voltage (VDC)	Current Min (mA)	Current Max (mA)		
HDC01S-03S03	3.3 (2.97-3.63)	3.3	0	303	82	4000
HDC01S-03S05		5	0	200	83	4000
HDC01S-03S09		9	0	111	84	2000
HDC01S-03S12		12	0	84	85	1000
HDC01S-05S03	5 (4.5-5.5)	3.3	0	303	83	4000
HDC01S-05S05		5	0	200	86	4000
HDC01S-05S09		9	0	111	86	2000
HDC01S-05S12		12	0	84	88	1000
HDC01S-05S15		15	0	67	88	880
HDC01S-05S24		24	0	42	89	580
HDC01S-05D05		±5	0	±100	88	#2000
HDC01S-05D09		±9	0	±56	88	#1000
HDC01S-05D12	±12	0	±42	88	#580	
HDC01S-05D15	±15	0	±34	88	#220	
HDC01S-12S03	12 (10.8-13.2)	3.3	0	303	84	4000
HDC01S-12S05		5	0	200	86	4000
HDC01S-12S09		9	0	111	87	2000
HDC01S-12S12		12	0	84	87	1000

Part Number	Input Voltage(VDC) Rating	Output			Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
		Voltage (VDC)	Current Min (mA)	Current Max (mA)		
HDC01S-12S15	12 (10.8-13.2)	15	0	67	88	880
HDC01S-12S24		24	0	42	89	580
HDC01S-12D03		±3.3	0	±152	84	#2000
HDC01S-12D05		±5	0	±100	86	#2000
HDC01S-12D09		±9	0	±56	87	#1000
HDC01S-12D12		±12	0	±42	87	#580
HDC01S-12D15		±15	0	±34	88	#220
HDC01S-24S03		24 (21.6-26.4)	3.3	0	303	84
HDC01S-24S05	5		0	200	87	4000
HDC01S-24S09	9		0	111	88	2000
HDC01S-24S12	12		0	84	88	1000
HDC01S-24S15	15		0	67	88	880
HDC01S-24S24	24		0	42	89	580
HDC01S-24D05	±5		0	±100	87	#2000
HDC01S-24D09	±9		0	±56	88	#1000
HDC01S-24D12	±12	0	±42	88	#580	
HDC01S-24D15	±15	0	±34	88	#220	

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	V _{in}	V _{in}
2	GND	GND
4	-V _o	-V _o
5	No Pin	COM
6	+V _o	+V _o



NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10[±0.004]

Unremarked tolerances: ±0.50[±0.020]

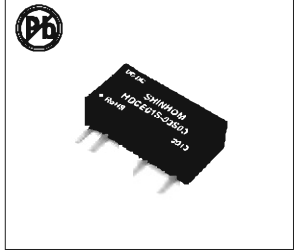
1W DC-DC CONVERTER

FEATURES:

Packaging: SIP7
 Operating Temperature: -40°C - 105°C
 Isolation Voltage: 3000VDC
 Efficiency: The maximum efficiency can reach 89%
 Meet a criterion: International standard pin mode

APPLICATION:

Electric power,
 Industrial control
 communication,
 IoT
 Automobile

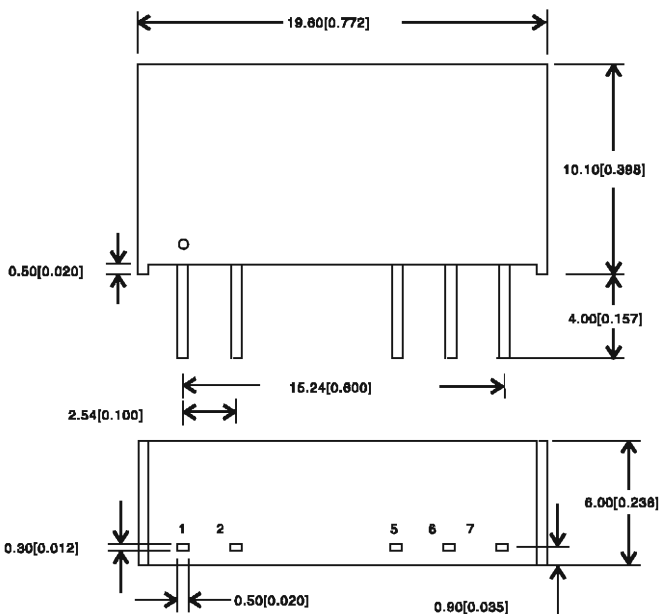


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output			Full Load Efficiency (%Typ)	Capacitive Load,Max (uF)	
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)			
HDCE018-03803	3.3 (2.97-3.63)	3.3	0	303	82	4000	
HDCE018-03805		5	0	200	83	4000	
HDCE018-03809		9	0	111	84	2000	
HDCE018-03812		12	0	84	85	1000	
HDCE018-05803	5 (4.5-5.5)	3.3	0	303	83	4000	
HDCE018-05805		5	0	200	86	4000	
HDCE018-05809		9	0	111	86	2000	
HDCE018-05812		12	0	84	88	1000	
HDCE018-05815		15	0	67	88	680	
HDCE018-05824		24	0	42	89	580	
HDCE018-05D05		±5	0	±100	86	#2000	
HDCE018-05D09		±9	0	±56	86	#1000	
HDCE018-05D12		±12	0	±42	88	#580	
HDCE018-05D15		±15	0	±34	88	#220	
HDCE018-12803		12 (10.8-13.2)	3.3	0	303	84	4000
HDCE018-12805			5	0	200	86	4000
HDCE018-12809	9		0	111	87	2000	
HDCE018-12812	12		0	84	87	1000	

Part Number	Input Voltage(VDC)	Output			Full Load Efficiency (%Typ)	Capacitive Load,Max (uF)	
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)			
HDCE018-12815	12 (10.8-13.2)	15	0	67	88	680	
HDCE018-12824		24	0	42	89	580	
HDCE018-12D05		±3.3	0	±152	84	#2000	
HDCE018-12D05		±5	0	±100	86	#2000	
HDCE018-12D09		±9	0	±56	87	#1000	
HDCE018-12D12		±12	0	±42	87	#580	
HDCE018-12D15		±15	0	±34	88	#220	
HDCE018-24803		24 (21.6-28.4)	3.3	0	303	84	4000
HDCE018-24805			5	0	200	87	4000
HDCE018-24809			9	0	111	88	2000
HDCE018-24812			12	0	84	88	1000
HDCE018-24815			15	0	67	88	680
HDCE018-24824	24		0	42	89	580	
HDCE018-24D05	±5		0	±100	87	#2000	
HDCE018-24D09	±9		0	±56	88	#1000	
HDCE018-24D12	±12		0	±42	88	#580	
HDCE018-24D15	±15		0	±34	88	#220	

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	Vin	Vin
2	GND	GND
5	-Vo	-Vo
6	No Pin	COM
7	+Vo	+Vo

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ±0.10[±0.004]

Unremarked tolerances: ±0.50[±0.020]

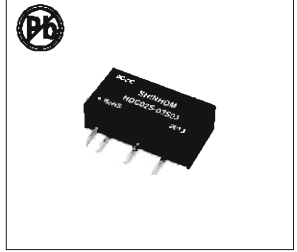
2W DC-DC CONVERTER

FEATURES:

Packaging: SIP6
 Operating Temperature: -40°C - 105°C
 Isolation Voltage: 1500VDC
 Efficiency: The maximum efficiency can reach 90%
 Meet a criterion: International standard pin mode

APPLICATION:

Electric power,
 Industrial control
 communication,
 IoT
 Automobile

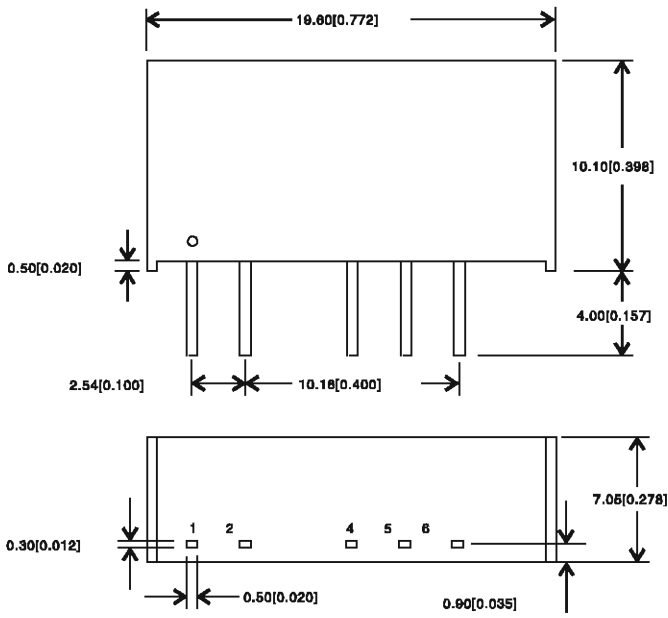


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load Max (uF)
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)		
HDC02S-03S03	3.3 (2.97-3.63)	3.3	0	400	82	2400
HDC02S-05S05		5	0	400	83	2400
HDC02S-09S09		9	0	222	84	1000
HDC02S-12S12		12	0	167	85	820
HDC02S-03S03	5 (4.5-5.5)	3.3	0	400	83	2400
HDC02S-05S05		5	0	400	85	2400
HDC02S-09S09		9	0	222	85	1000
HDC02S-12S12		12	0	167	86	820
HDC02S-05S15	12 (10.8-13.2)	15	0	133	87	880
HDC02S-06S24		24	0	83	88	560
HDC02S-05D03		±3.3	0	±303	83	#1000
HDC02S-05D05		±5	0	±200	85	#1000
HDC02S-05D09		±9	0	±111	86	#560
HDC02S-05D12		±12	0	±83	86	#560
HDC02S-05D15		±15	0	±67	87	#220
HDC02S-12S03		3.3	0	400	84	2400
HDC02S-12S05	5	0	400	85	2400	
HDC02S-12S09	9	0	222	86	1000	
HDC02S-12S12	12	0	167	87	820	

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load Max (uF)
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)		
HDC02S-12S15	12 (10.8-13.2)	15	0	133	88	680
HDC02S-12S24		24	0	83	89	580
HDC02S-12D03		±3.3	0	±303	84	#1000
HDC02S-12D05		±5	0	±200	85	#1000
HDC02S-12D09		±9	0	±111	86	#560
HDC02S-12D12		±12	0	±83	87	#560
HDC02S-12D15	±15	0	±67	88	#220	
HDC02S-24S03	24 (21.6-28.4)	3.3	0	400	84	2400
HDC02S-24S05		5	0	400	86	2400
HDC02S-24S09		9	0	222	87	1000
HDC02S-24S12		12	0	167	88	820
HDC02S-24S15		15	0	133	89	680
HDC02S-24S24		24	0	83	90	580
HDC02S-24D03		±3.3	0	±303	84	#1000
HDC02S-24D05		±5	0	±200	86	#1000
HDC02S-24D09	±9	0	±111	87	#560	
HDC02S-24D12	±12	0	±83	88	#560	
HDC02S-24D15	±15	0	±67	89	#220	

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	Vin	Vin
2	GND	GND
4	-Vo	-Vo
5	No Pin	COM
6	+Vo	+Vo

NC: Cannot be connected to any external circuit
 Dimensions: in mm
 Terminal diameter tolerance: ±0.10[±0.004]
 Unremarked tolerances: ±0.50[±0.020]

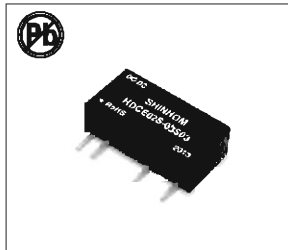
2W DC-DC CONVERTER

FEATURES:

Packaging: SIP7
 Operating Temperature: -40°C - 105°C
 Isolation Voltage: 3000VDC
 Efficiency: The maximum efficiency can reach 90%
 Meet a criterion: International standard pin mode

APPLICATION:

Electric power,
 Industrial control
 communication,
 IoT
 Automobile
 Rail traffic

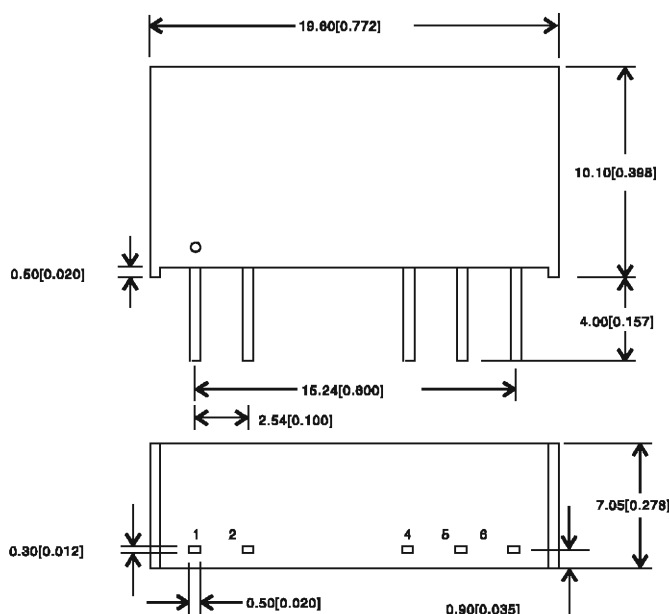


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (%Typ)	Capacitive Load,Max (uF)
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)		
HDCE02S-03803	3.3 (2.97-3.63)	3.3	0	400	82	2400
HDCE02S-03805		5	0	400	83	2400
HDCE02S-03809		9	0	222	84	1000
HDCE02S-03812		12	0	167	85	820
HDCE02S-06803	5 (4.5-5.5)	3.3	0	400	83	2400
HDCE02S-06805		5	0	400	85	2400
HDCE02S-06809		9	0	222	85	1000
HDCE02S-06812		12	0	167	86	820
HDCE02S-06815		15	0	138	87	680
HDCE02S-06824		24	0	83	88	580
HDCE02S-05D03		±3.3	0	±303	83	#1000
HDCE02S-05D05		±5	0	±200	85	#1000
HDCE02S-05D09		±9	0	±111	85	#580
HDCE02S-05D12		±12	0	±83	88	#580
HDCE02S-05D15		±15	0	±67	87	#220
HDCE02S-12803		12 (10.8-13.2)	3.3	0	400	84
HDCE02S-12805	5		0	400	85	2400
HDCE02S-12809	9		0	222	88	1000
HDCE02S-12812	12		0	167	87	820

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (%Typ)	Capacitive Load,Max (uF)	
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)			
HDCE02S-12815	12 (10.8-13.2)	15	0	133	86	680	
HDCE02S-12824		24	0	83	89	580	
HDCE02S-12D03		±3.3	0	±303	84	#1000	
HDCE02S-12D05		±5	0	±200	85	#1000	
HDCE02S-12D09		±9	0	±111	86	#580	
HDCE02S-12D12		±12	0	±83	87	#580	
HDCE02S-12D15		±15	0	±67	88	#220	
HDCE02S-24803		24 (21.6-26.4)	3.3	0	400	84	2400
HDCE02S-24805			5	0	400	86	2400
HDCE02S-24809			9	0	222	87	1000
HDCE02S-24812			12	0	167	88	820
HDCE02S-24815			15	0	133	89	680
HDCE02S-24824	24		0	83	90	580	
HDCE02S-24D03	±3.3		0	±303	84	#1000	
HDCE02S-24D05	±5		0	±200	86	#1000	
HDCE02S-24D09	±9		0	±111	87	#580	
HDCE02S-24D12	±12		0	±83	88	#580	
HDCE02S-24D15	±15		0	±67	89	#220	

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	Vin	Vin
2	GND	GND
5	-Vo	-Vo
6	No Pin	COM
7	+Vo	+Vo

NC: Cannot be connected to any external circuit
 Dimensions: in mm
 Terminal diameter tolerance: ±0.10[±0.004]
 Unremarked tolerances: ±0.50[±0.020]

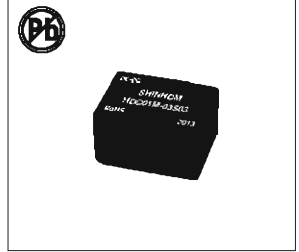
1W DC-DC CONVERTER

FEATURES:

Packaging: SMD8
 Operating Temperature: -40°C - 105°C
 Isolation Voltage: 1500VDC
 Efficiency: The maximum efficiency can reach 88%
 Meet a criterion: International standard pin mode

APPLICATION:

Electric power,
 Industrial control
 communication,
 IoT
 Automobile
 Rail traffic

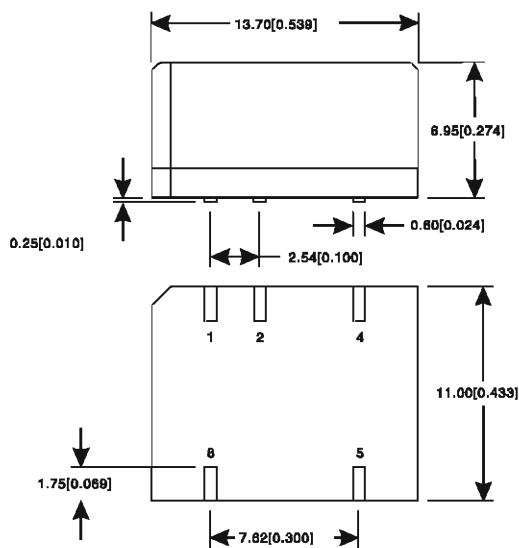


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output			Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)		
HDC01M-03803	3.3 (2.97-3.63)	3.3	0	303	80	3000
HDC01M-03805		5	0	200	82	3000
HDC01M-03808		9	0	111	83	1200
HDC01M-03812		12	0	84	84	820
HDC01M-05803	5 (4.5-5.5)	3.3	0	303	82	3000
HDC01M-05805		5	0	200	85	3000
HDC01M-05808		9	0	111	86	1200
HDC01M-05812		12	0	84	86	820
HDC01M-05815	12 (10.8-13.2)	15	0	67	86	680
HDC01M-05824		24	0	42	87	330
HDC01M-12803		3.3	0	303	82	3000
HDC01M-12805		5	0	200	85	3000
HDC01M-12808	12 (10.8-13.2)	9	0	111	86	1200

Part Number	Input Voltage(VDC)	Output			Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)		
HDC01M-12812	12 (10.8-13.2)	12	0	84	86	820
HDC01M-12815		15	0	67	86	680
HDC01M-12824		24	0	42	86	330
HDC01M-15805	15 (13.5-16.5)	5	0	200	86	3000
HDC01M-15812		12	0	84	87	820
HDC01M-15815		15	0	67	88	680
HDC01M-24803	24 (21.6-28.4)	3.3	0	303	82	3000
HDC01M-24805		5	0	200	85	3000
HDC01M-24808		9	0	111	86	1200
HDC01M-24812		12	0	84	87	820
HDC01M-24815		15	0	67	87	680
HDC01M-24824		24	0	42	88	330

PHYSICAL CHARACTERISTICS:



Pin	Definition
1	GND
2	Vin
4	-Vo
5	+Vo
8	NC

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ±0.10[±0.004]

Unremarked tolerances: ±0.50[±0.020]

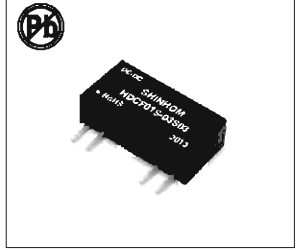
1W DC-DC CONVERTER

FEATURES:

Packaging: SIP7
 Operating Temperature: -40°C – 85°C
 Isolation Voltage: 4200VAC or 6000VDC
 Efficiency: The maximum efficiency can reach 85%
 Meet a criterion: International standard pin mode

APPLICATION:

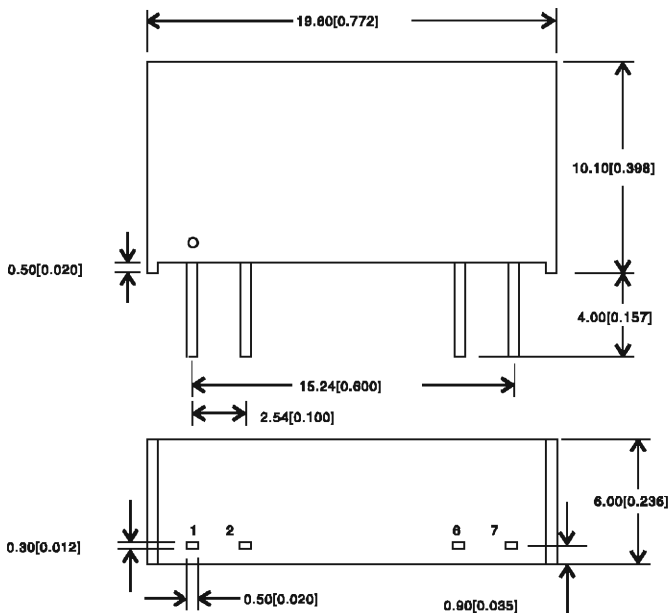
IGBT drive
 SiC drive



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Voltage (VDC)	Current Max (mA)		
HDCF01S-03S03	3.3 (2.97-3.63)	3.3	303	79	4000
HDCF01S-03S05		5	200	81	4000
HDCF01S-03S12		12	84	82	1000
HDCF01S-05S03	5 (4.6-5.5)	3.3	303	80	4000
HDCF01S-05S05		5	200	84	4000
HDCF01S-05S12		12	84	85	1000
HDCF01S-05S15		15	87	85	680
HDCF01S-12S03	12 (10.8-13.2)	3.3	303	82	4000
HDCF01S-12S05		5	200	85	4000
HDCF01S-24S03	24 (21.6-28.4)	3.3	303	81	4000
HDCF01S-24S05		5	200	85	4000

PHYSICAL CHARACTERISTICS:



Pin	Definition
1	Vin
2	GND
6	-Vo
7	+Vo

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

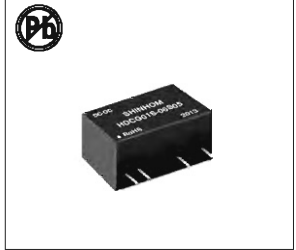
1W DC-DC CONVERTER

FEATURES:

- Packaging: SIP7
- Operating Temperature: -40°C - 85°C
- Isolation Voltage: 4200VAC or 6000VDC
- Efficiency: The maximum efficiency can reach 81%
- Meet a criterion: Meet safety medical certification

APPLICATION:

Armairlum

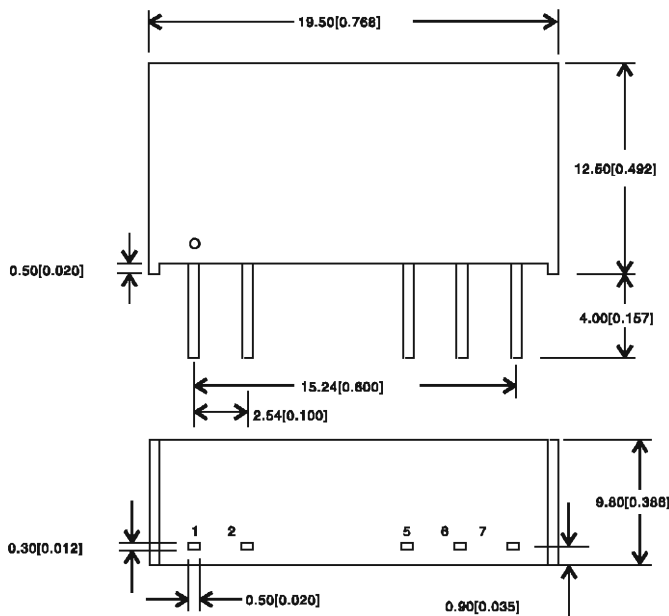


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output			Full Load Efficiency (% Typ)	Capacitive Load Max (uF)
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)		
HDCG018-05B05	5 (4.5-5.5)	5	4	200	79	220
HDCG018-05B12		12	1.68	84	80	
HDCG018-05B15		15	1.36	88	81	
HDCG018-05D05		±5	±2	±100	79	#100
HDCG018-05D12		±12	±1	±40	80	
HDCG018-05D15		±15	±1	±35	81	
HDCG018-12B05		5	4	200	79	
HDCG018-12B12	12	1.68	84	81		
HDCG018-12B15	15	1.36	88	79		
HDCG018-12D05	±5	±2	±100	79	#100	
HDCG018-12D12	±12	±1	±40	81		
HDCG018-12D15	±15	±1	±35	81		

Part Number	Input Voltage(VDC)	Output			Full Load Efficiency (% Typ)	Capacitive Load Max (uF)
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)		
HDCG018-12D15	12(10.8-13.2)	±15	±1	±35	79	#100
HDCG018-15B05	15 (13.5-16.5)	5	20	200	79	220
HDCG018-15D05		±5	±10	±100	80	
HDCG018-15D15		±15	±4	±33	81	
HDCG018-24B05	24 (21.6-26.4)	5	4	200	76	220
HDCG018-24B12		12	1.68	84	79	
HDCG018-24B15		15	1.36	88	79	
HDCG018-24D05		±5	±2	±100	76	#100
HDCG018-24D12		±12	±1	±40	79	
HDCG018-24D15		±15	±1	±35	79	
HDCG018-24D12		±12	±1	±40	81	

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	Vin	Vin
2	GND	GND
5	-Vo	-Vo
6	No Pin	No Pin
7	+Vo	+Vo

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

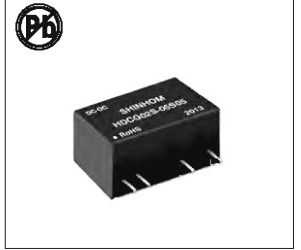
2W DC-DC CONVERTER

FEATURES:

- Packaging: SIP7
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 4200VAC or 6000VDC
- Efficiency: The maximum efficiency can reach 83%
- Meet a criterion: Meet safety medical certification

APPLICATION:

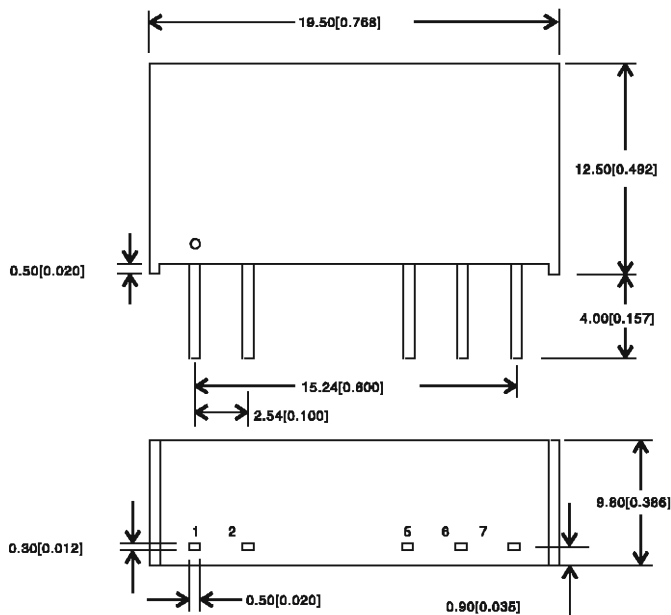
Armarium



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output			Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)	Part Number	Input Voltage(VDC)	Output			Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)				Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)		
HDCG02S-05805	5 (4.5-5.5)	5	8	400	80	220	HDCG02S-12D05	12 (10.8-13.2)	±5	±4	±200	81	#100
HDCG02S-06S12		12	4	168	82		HDCG02S-12D12		±12	±2	±80	83	
HDCG02S-05815		15	3	136	82		HDCG02S-12D15		±15	±2	±70	80	
HDCG02S-06D05		±5	±4	±200	81		HDCG02S-24S05	24 (21.6-26.4)	5	8	400	80	220
HDCG02S-06D12		±12	±2	±80	82		HDCG02S-24S12		12	4	168	82	
HDCG02S-06D15		±15	±2	±70	82		HDCG02S-24S15		15	3	136	81	
HDCG02S-12S05	12 (10.8-13.2)	5	8	400	81	HDCG02S-24D05	±5		±4	±200	80	#100	
HDCG02S-12S12		12	4	168	83	HDCG02S-24D12	±12		±2	±80	82		
HDCG02S-12S15		15	3	136	80	HDCG02S-24D15	±15		±2	±70	81		

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	V _{in}	V _{in}
2	GND	GND
5	-V _o	-V _o
6	No Pin	No Pin
7	+V _o	+V _o

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10[±0.004]

Unremarked tolerances: ±0.50[±0.020]

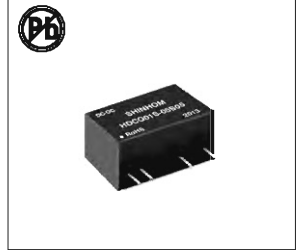
1W DC-DC CONVERTER

FEATURES:

- Packaging: SIP7
- Operating Temperature: -40°C – 105°C
- Isolation Voltage: 3500VAC/6000VDC
- Efficiency: The maximum efficiency can reach 80%
- Meet a criterion: Meet safety medical certification

APPLICATION:

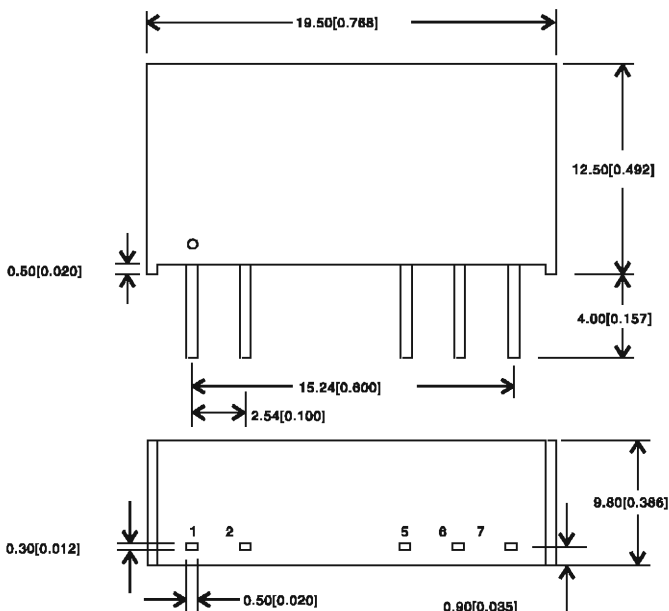
Sic MOS FET Driver specific power supply



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output			Full Load Efficiency (% Typ)	Capacitive Load Max (uF)
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)		
HDCQ01S-05D2005	5 (4.5-6.5)	+20/-5		+80/-40	80	#100/100
HDCQ01S-12D1503	12 (10.8-13.2)	+15/-3.5		+111/-111	80	#220/220
HDCQ01S-12D2004		+20/-4		+100/-100	80	#220/220
HDCQ01S-12D2005		+20/-5		+100/-100	80	#220/220
HDCQ01S-15D1504	15 (13.5-18.5)	+15/-4		+100/-100	80	#220/220
HDCQ01S-15D1803		+18/-3		+100/-100	80	#220/220
HDCQ01S-15D2004		+20/-4		+100/-100	80	#220/220
HDCQ01S-15D2005		+20/-5		+100/-100	80	#220/220
HDCQ01S-24D2004	24 (21.6-28.4)	+20/-4		+100/-100	80	#220/220

PHYSICAL CHARACTERISTICS:



Pin	Definition
1	V _{IN}
2	GND
5	-V _O
6	COM
7	+V _O

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ± 0.10 [± 0.004]

Unremarked tolerances: ± 0.50 [± 0.020]

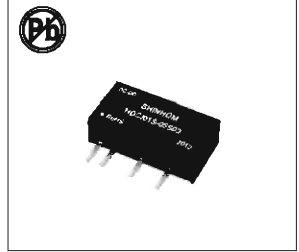
1W DC-DC CONVERTER

FEATURES:

Packaging: SIP6
 Operating Temperature: -40°C – 105°C
 Isolation Voltage: 1500VDC
 Efficiency: The maximum efficiency can reach 82%
 Meet a criterion: International standard pin mode

APPLICATION:

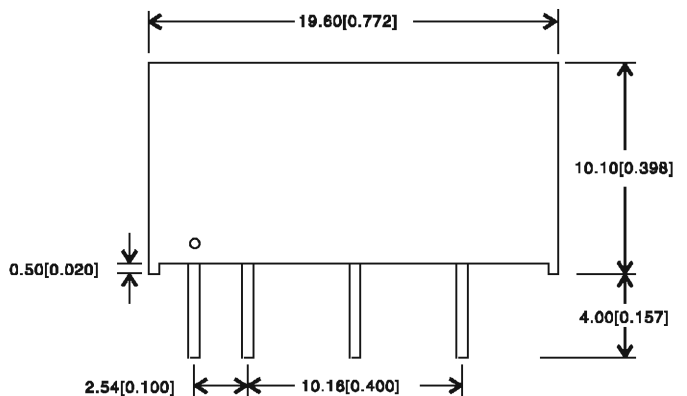
Electric Power, Industrial Control



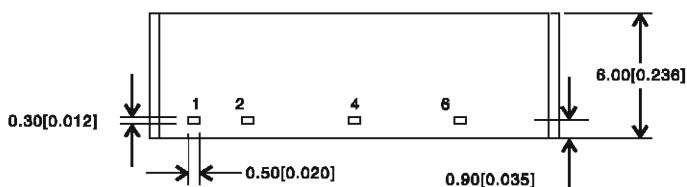
ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output			Full Load Efficiency (% Typ)
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)	
HDCI01S-05S03	5 (4.5-5.5)	3.3	0	250	82
HDCI01S-05S05		5	0	200	82
HDCI01S-05S12		12	0	84	82
HDCI01S-05S15		15	0	67	82
HDCI01S-05S24		24	0	41	82
HDCI01S-12S03	12 (11.4-12.6)	3.3	0	250	78
HDCI01S-12S05		5	0	200	82
HDCI01S-24S03	24 (21.6-26.4)	3.3	0	250	77
HDCI01S-24S05		5	0	200	82

PHYSICAL CHARACTERISTICS:



Pin	Definition
1	VIn
2	GND
4	-Vo
6	+Vo



NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10[±0.004]

Unremarked tolerances: ±0.50[±0.020]

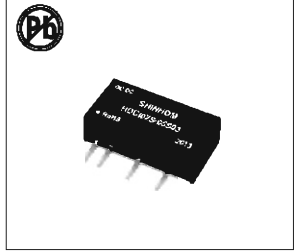
2W DC-DC CONVERTER

FEATURES:

Packaging: SIP6
 Operating Temperature: -40°C – 105°C
 Isolation Voltage: 1500VDC
 Efficiency: The maximum efficiency can reach 82%
 Meet a criterion: International standard pin mode

APPLICATION:

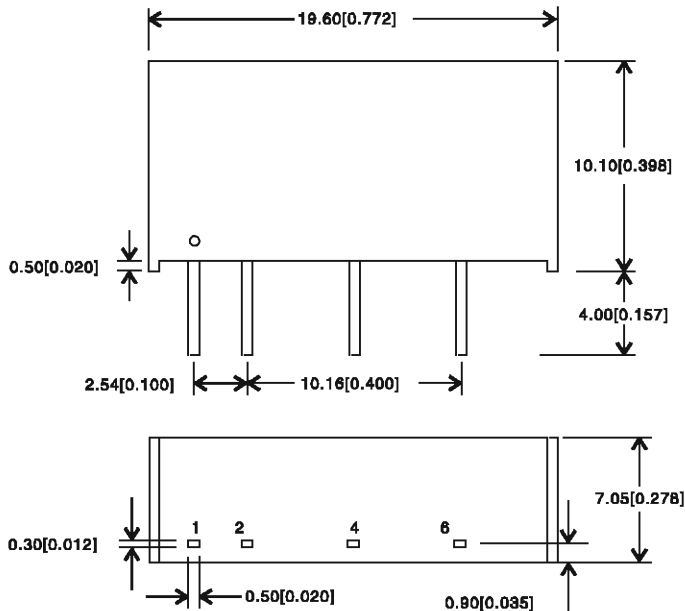
Electric power
 Industrial control
 Communication
 IoT
 Rail transit



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output			Full Load Efficiency (%.Typ)
	Rating	Voltage (VDC)	Current Min (mA)	Current Max (mA)	
HDCI02S-05S03	5 (4.5-6.5)	3.3	0	400	82
HDCI02S-05S05		5	0	400	82
HDCI02S-05S12		12	0	168	82
HDCI02S-12S03	12 (10.8-13.2)	3.3	0	400	76
HDCI02S-12S05		5	0	400	82
HDCI02S-24S03	24 (21.6-26.4)	3.3	0	400	77
HDCI02S-24S05		5	0	400	82

PHYSICAL CHARACTERISTICS:



Pin	Definition
1	Vin
2	GND
4	-Vo
6	+Vo

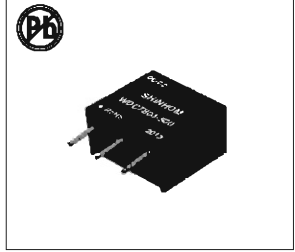
NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10[±0.004]

Unremarked tolerances: ±0.50[±0.020]

1.5W~7.5W DC-DC CONVERTER



FEATURES:

- Packaging: SIP3
- Operating Temperature: -40°C – 85°C
- Negative output support
- Efficiency: The maximum efficiency can reach 95%
- Input short-circuit protection

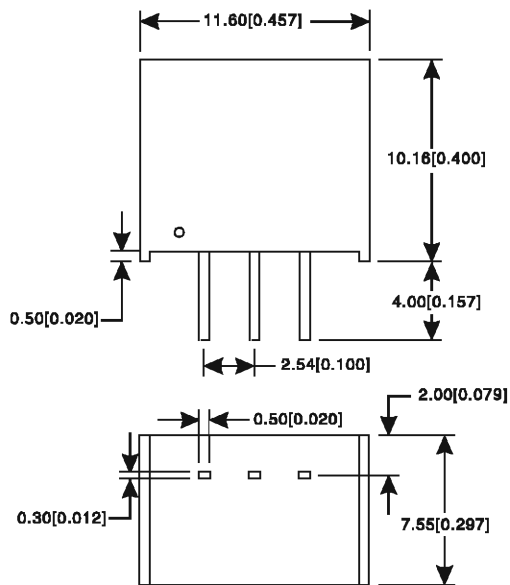
APPLICATION:

- Electric power
- Industrial control
- Communication
- IoT
- Rail transit
- Automobile

ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output		Full Load Efficiency (% Typ)		Capacitive Load,Max (uF)
	Rating	Voltage (VDC)	Current Max (mA)	VIn Min	Vin max	
WDC7803-500	24 (4.75-36)	3.3	500	86	80	680
WDC7805-500	24 (6.5-36)	5	500	90	84	680
	12 (7-31)	-5	-300	80	81	330
WDC7809-500	24 (12-36)	9	500	93	90	680
WDC7812-500	24 (15-36)	12	500	94	91	680
	12 (8-24)	-12	-150	84	85	330
WDC7815-500	24 (19-36)	15	500	95	93	680
	12 (8-21)	-15	-150	85	87	330

PHYSICAL CHARACTERISTICS:



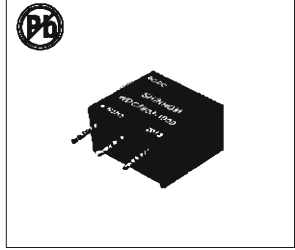
Pin	Definition
1	Vin
2	GND
3	+Vo

Dimensions: In mm

Terminal diameter tolerance: ±0.10[±0.004]

Unremarked tolerances: ±0.50[±0.020]

2.5W~15W DC-DC CONVERTER



FEATURES:

- Packaging: SIP3
- Operating Temperature: -40°C – 85°C
- Full voltage stabilized output
- Efficiency: The maximum efficiency can reach 96%
- With output short circuit

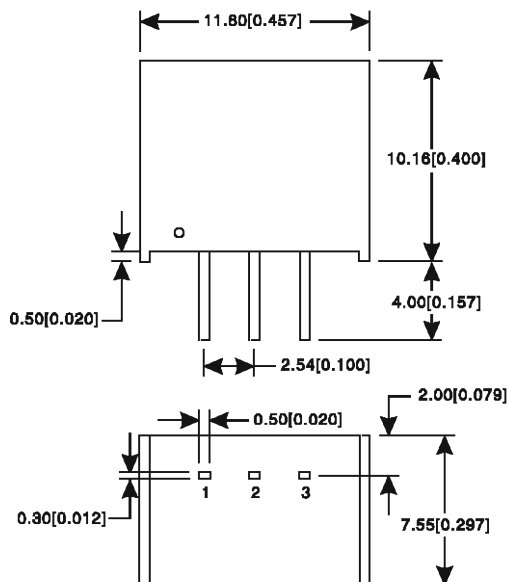
APPLICATION:

- Electric power
- Industrial control
- Communication
- Instrument & apparatus
- Rail transit

ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output		Full Load Efficiency (% Typ)		Capacitive Load, Max (uF)
	Rating	Voltage (VDC)	Current Max (mA)	Vin Min	VIn max	
WDC7803-1000	24 (6-36)	3.3	1000	90	81	680
WDC7805-1000	24 (8-36)	5	1000	93	86	680
	12 (8-27)	-5	-500	86	82	330
WDC7809-1000	24 (13-26)	9	1000	95	90	680
WDC7812-1000	24 (16-36)	12	1000	96	93	680
	12 (8-20)	-12	-300	89	88	330
WDC7815-1000	24 (20-36)	15	1000	96	94	680
	12 (8-18)	-15	-300	89	89	330

PHYSICAL CHARACTERISTICS:



Pin	Definition
1	Vin
2	GND
3	+Vo

Dimensions: In mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

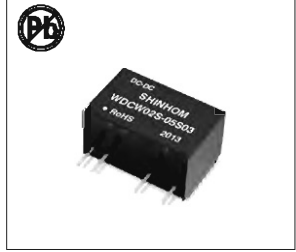
2W DC-DC CONVERTER

FEATURES:

- Packaging: SIP6
- 2:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- Efficiency: The maximum efficiency can reach 85%
- With output short circuit, over current, over voltage protection

APPLICATION:

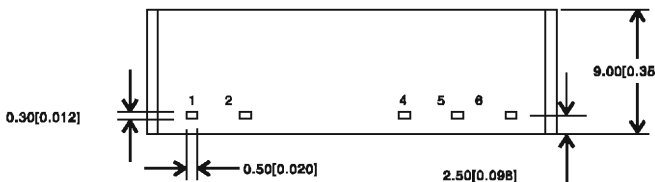
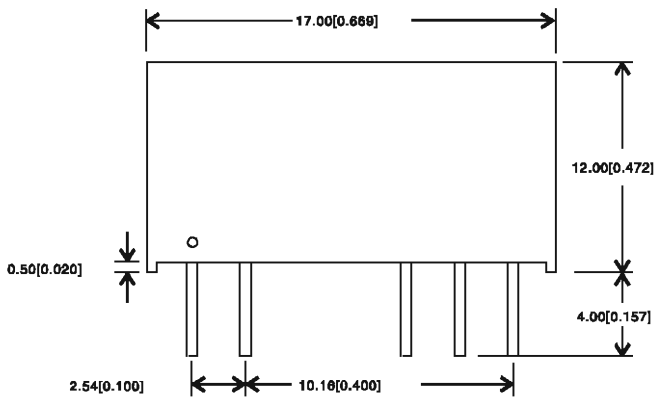
- Electric power
- Industrial control
- Communication
- Instrument & apparatus
- Rail transit



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output			Ripple&Noise (Max./Max.) MVP-P	Full Load Efficiency (%Typ)	Capacitive Load,Max (uF)	Part Number	Input Voltage(VDC)		Output			Ripple&Noise (Max./Max.) MVP-P	Full Load Efficiency (%Typ)	Capacitive Load,Max (uF)
	Rating	Voltage (VDC)	Current Max (mA)	Current Min (mA)	Voltage (VDC)					Current Max (mA)	Current Min (mA)	Rating	Voltage (VDC)	Current Max (mA)			
WDCW025-06803	5 (4.5-9)	3.3	600	0	120/200	80	1800	WDCW025-04803	24 (18-36)	3.3	600	0	120/200	78	2700		
WDCW025-06806		5	400	0	120/200	82	2200	WDCW025-04806		5	400	0	120/200	80	2200		
WDCW025-06812		12	167	0	150/200	85	680	WDCW025-04812		12	167	0	150/200	82	680		
WDCW025-06815		15	133	0	150/200	84	470	WDCW025-04815		15	133	0	150/200	82	470		
WDCW025-06D12		±12	±83	0	150/200	83	#470	WDCW025-04D12		±12	±83	0	150/200	82	#470		
WDCW025-06D15		±15	±87	0	150/200	81	#330	WDCW025-04D15		±15	±87	0	150/200	80	#330		
WDCW025-12803		12 (9-18)	3.3	600	0	120/200	80	2700		WDCW025-18803	48 (36-75)	3.3	600	0	120/200	78	2700
WDCW025-12806	5		400	0	120/200	83	2200	WDCW025-18806	5	400		0	120/200	80	2200		
WDCW025-12812	12		167	0	150/200	84	680	WDCW025-18812	12	167		0	150/200	82	680		
WDCW025-12815	15		133	0	150/200	84	470	WDCW025-18815	15	133		0	150/200	82	470		
WDCW025-12D12	±12		±83	0	150/200	83	#470	WDCW025-48D12	±12	±83		0	150/200	81	#470		
WDCW025-12D15	±15		±87	0	150/200	81	#330	WDCW025-48D15	±15	±87		0	150/200	80	#330		

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
4	+Vo	+Vo
5	No Pin	COM
6	-Vo	-Vo

Dimensions: in mm
Terminal diameter tolerance: ±0.10[±0.004]
Unremarked tolerances: ±0.50[±0.020]

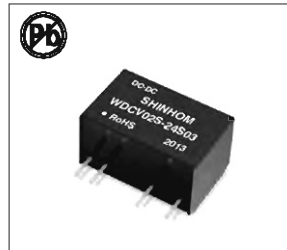
2W DC-DC CONVERTER

FEATURES:

- Packaging: SIP6
- 4:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- Efficiency: The maximum efficiency can reach 83%
- With output short circuit, over current, over voltage protection

APPLICATION:

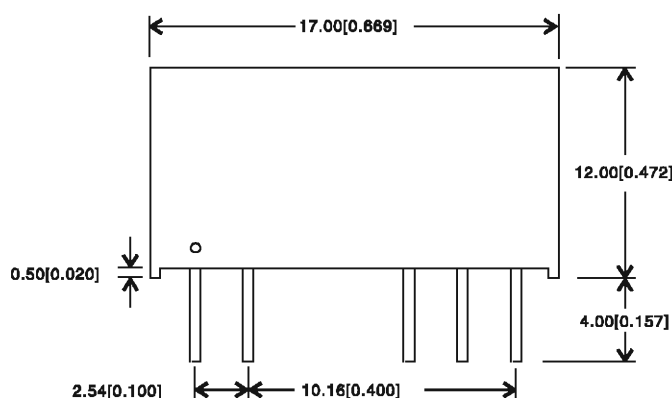
- Electric power
- Industrial control
- Communication
- Instrument & apparatus
- Rail transit



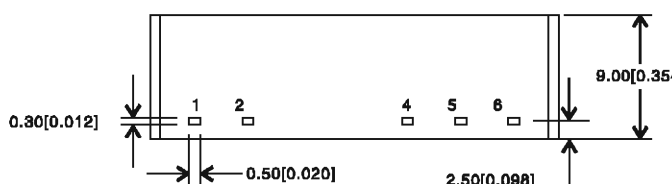
ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output			Ripple&Nois (Max./Max.) MVP-P	Full Load Efficiency (% Typ)	Capacitive Load,Max (uF)
	Rating	Voltage (VDC)	Current Max (mA)	Current Min (mA)			
WDCV02S-24S03	24 (9-36)	3.3	3.3	600	120/200	77	1760
WDCV02S-24S05		5	5	400	120/200	80	1000
WDCV02S-24S12		12	12	167	150/200	83	170
WDCV02S-24S15		15	15	133	150/200	82	110
WDCV02S-24D12		± 12	± 12	± 83	150/200	81	#100
WDCV02S-24D15		± 15	± 15	± 67	150/200	80	#47
WDCV02S-48S03		48 (36-75)	3.3	3.3	600	120/200	76
WDCV02S-48S05	5		5	400	120/200	79	1000
WDCV02S-48S12	12		12	167	150/200	82	170
WDCV02S-48S15	15		15	133	150/200	81	110
WDCV02S-48D12	± 12		± 12	± 83	150/200	81	#100
WDCV02S-48D15	± 15		± 15	± 67	150/200	79	#47

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
4	+Vo	+Vo
5	No Pin	COM
6	-Vo	-Vo



Dimensions: in mm

Terminal diameter tolerance: ± 0.10 [± 0.004]

Unremarked tolerances: ± 0.50 [± 0.020]

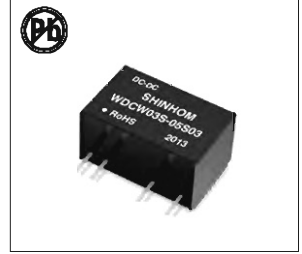
3W DC-DC CONVERTER

FEATURES:

- Packaging: SIP6
- 2:1 Wide input voltage range
- Operating Temperature: -40°C - 85°C
- Isolation Voltage: 1500VDC
- Efficiency: The maximum efficiency can reach 86%
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

- Electric power
- Industrial control
- Communication
- Instrument & apparatus
- Rail transit

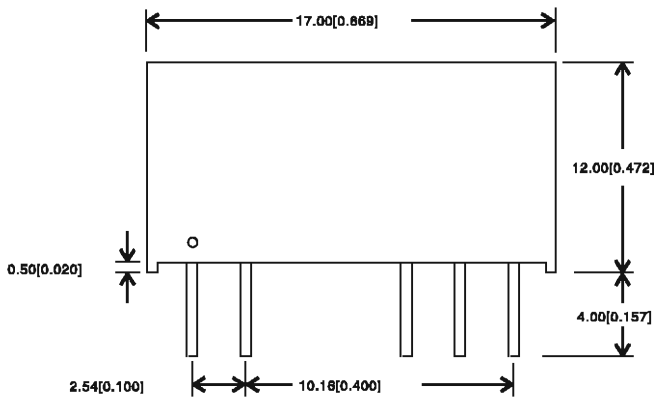


ELECTRICAL CHARACTERISTICS:

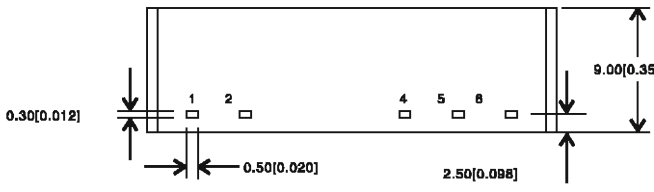
Part Number	Input Voltage(VDC)		Output			Ripple&Noise (Max./Max.) MVP-P	Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Voltage (VDC)	Current Max (mA)	Current Min (mA)				
WDCW03S-05000	5 (4.5-9)	3.3	800	38	120/200	79	1800	
WDCW03S-05008		5	600	30	120/200	82	2200	
WDCW03S-05012		12	250	13	150/200	85	680	
WDCW03S-05015		15	200	10	150/200	85	470	
WDCW03S-05D12		±12	±130	±6	150/200	83	#470	
WDCW03S-05D15		±15	±100	±5	150/200	82	#330	
WDCW03S-12000		12 (9-18)	3.3	800	38	120/200	82	2700
WDCW03S-12008	5		600	30	120/200	83	2200	
WDCW03S-12012	12		250	13	150/200	88	680	
WDCW03S-12015	15		200	10	150/200	85	470	
WDCW03S-12D12	±12		±130	±6	150/200	84	#470	
WDCW03S-12D15	±15		±100	±5	150/200	83	#330	

Part Number	Input Voltage(VDC)		Output			Ripple&Noise (Max./Max.) MVP-P	Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Voltage (VDC)	Current Max (mA)	Current Min (mA)				
WDCW03S-24000	24 (18-36)	3.3	800	38	120/200	80	2700	
WDCW03S-24008		5	600	30	120/200	82	2200	
WDCW03S-24012		12	250	13	150/200	85	680	
WDCW03S-24015		15	200	10	150/200	85	470	
WDCW03S-24D12		±12	±130	±6	150/200	83	#470	
WDCW03S-24D15		±15	±100	±5	150/200	83	#330	
WDCW03S-48000		48 (36-75)	3.3	800	38	120/200	78	2700
WDCW03S-48008	5		600	30	120/200	80	2200	
WDCW03S-48012	12		250	13	150/200	85	680	
WDCW03S-48015	15		200	10	150/200	85	470	
WDCW03S-48D12	±12		±130	±6	150/200	82	#470	
WDCW03S-48D15	±15		±100	±5	150/200	82	#330	

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
4	+Vo	+Vo
5	No Pin	COM
6	-Vo	-Vo



Dimensions: In mm
Terminal diameter tolerance: ± 0.10 [± 0.004]
Unremarked tolerances: ± 0.50 [± 0.020]

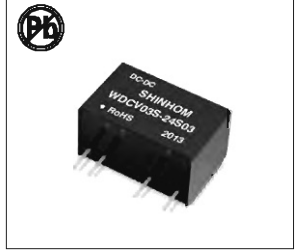
3W DC-DC CONVERTER

FEATURES:

- Packaging: SIP6
- 4:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- Efficiency: The maximum efficiency can reach 83%
- With output short circuit, over current, over voltage protection

APPLICATION:

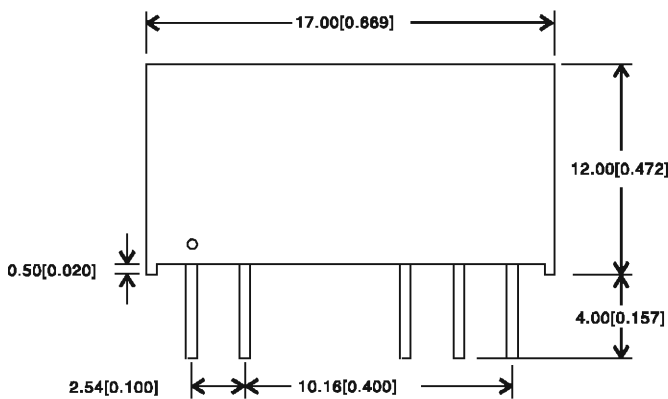
- Electric power
- Industrial control
- Communication
- Instrument & apparatus
- Rail transit



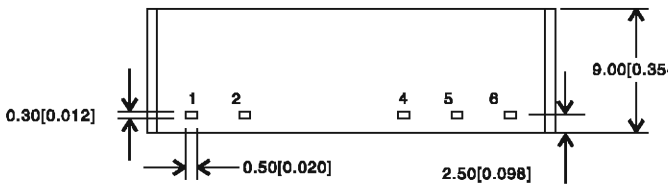
ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output			Ripple&Noise (Max./Max.) MVP-P	Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Voltage (VDC)	Current Max (mA)	Current Min (mA)			
WDCV03S-24S03	24 (9-36)	3.3	800	38	120/200	78	1760
WDCV03S-24S05		5	600	30	120/200	81	1000
WDCV03S-24S12		12	250	13	150/200	85	170
WDCV03S-24S15		15	200	10	150/200	84	110
WDCV03S-24D12		±12	±130	±6	150/200	82	#100
WDCV03S-24D15		±15	±100	±5	150/200	82	#47
WDCV03S-48S03		48 (36-75)	3.3	800	38	120/200	77
WDCV03S-48S05	5		800	30	120/200	80	1000
WDCV03S-48S12	12		250	13	150/200	83	170
WDCV03S-48S15	15		200	10	150/200	83	110
WDCV03S-48D12	±12		±130	±6	150/200	81	#100
WDCV03S-48D15	±15		±100	±5	150/200	81	#47

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
4	+Vo	+Vo
5	No Pin	COM
6	-Vo	-Vo



Dimensions: in mm
 Terminal diameter tolerance: ±0.10 [±0.004]
 Unremarked tolerances: ±0.50 [±0.020]

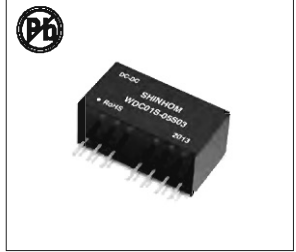
1W DC-DC CONVERTER

FEATURES:

- Packaging: SIP8
- 2:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- Low Ripple Noise
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

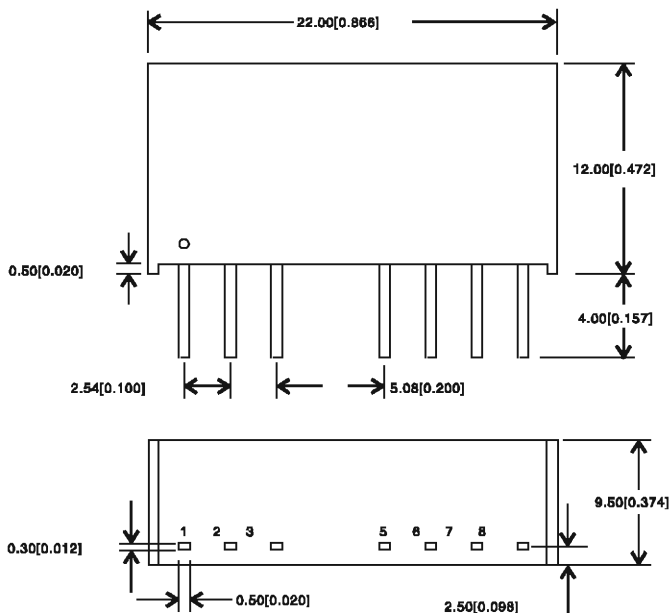
- Electric power
- Industrial control
- Communication
- Instrument & apparatus
- Rail transit



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output			Ripple&Noise (Max./Max.) MVP-P	Full Load Efficiency (% Typ)	Capacitive Load Max (uF)	Part Number	Input Voltage(VDC)		Output			Ripple&Noise (Max./Max.) MVP-P	Full Load Efficiency (% Typ)	Capacitive Load Max (uF)
	Rating	Voltage (VDC)	Current Max (mA)	Current Min (mA)	Rating					Voltage (VDC)	Current Max (mA)	Current Min (mA)					
WDC018-05B03	5 (4.5-9)	3.3	303	15	70/100	66/68	1800	WDC018-12D16	12(9-18)	±15	±33	±2	100/150	78/80	#330		
WDC018-05B05		5	200	10		71/73	2200	WDC018-24B03		24 (18-36)	3.3	303	15	70/100	72/74	2700	
WDC018-05B12		12	83	4		75/77	680	WDC018-24B05			5	200	10		79/81	2200	
WDC018-05B15		15	67	3		72/74	470	WDC018-24B12			12	83	4		81/83	680	
WDC018-05B24		24	42	2		74/76	330	WDC018-24B15			15	67	3		81/83	470	
WDC018-05D05		±5	±100	±5		72/74	#1000	WDC018-24B24			24	42	2		81/83	330	
WDC018-05D12		±12	±42	±2		75/77	#470	WDC018-24D05			±5	±100	±5		77/79	#1000	
WDC018-05D15		±15	±33	±2		75/77	#330	WDC018-24D12			±12	±42	±2		81/83	#470	
WDC018-12B03		12 (9-18)	3.3	303		15	100/150	73/75			2700	WDC018-48D15	48 (36-75)		±15	±33	±2
WDC018-12B05	5		200	10	74/76	2200		WDC018-48D03	3.3		303	15			73/75	2700	
WDC018-12B09	9		111	6	78/78	1000		WDC018-48B05	5	200	10	74/76		2200			
WDC018-12B12	12		83	4	80/82	680		WDC018-48B12	12	83	4	78/80		680			
WDC018-12B15	15		67	3	81/83	670		WDC018-48B15	15	67	3	82/84		470			
WDC018-12B24	24		42	2	79/81	330		WDC018-48D05	±5	±100	±5	77/79		#1000			
WDC018-12D05	±5		±100	±5	78/78	#1000		WDC018-48D12	±12	±42	±2	80/82		#470			
WDC018-12D12	±12		±42	±2	77/79	#470		WDC018-48D15	±15	±33	±2	80/82		#330			

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	V _{in}	V _{in}
3	Ctrl	Ctrl
5	NC	NC
6	+V _o	+V _o
7	-V _o	COM
8	NC	-V _o

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

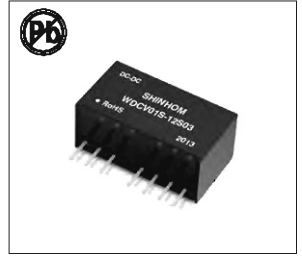
1W DC-DC CONVERTER

FEATURES:

- Packaging: SIP8
- 4:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- Low Ripple Noise
- With Input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

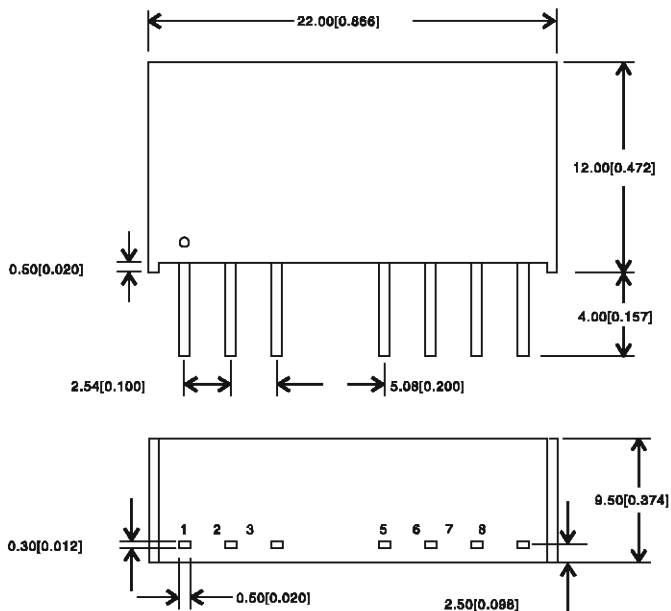
- Electric power
- Industrial control
- Communication
- IoT
- Automobile



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output			Ripple&Noise (Max./Max.) MVP-P	Full Load Efficiency (% Typ)	Capacitive Load,Max (uF)	Part Number	Input Voltage(VDC)		Output			Ripple&Noise (Max./Max.) MVP-P	Full Load Efficiency (% Typ)	Capacitive Load,Max (uF)
	Rating	Voltage (VDC)	Current Max (mA)	Current Min (mA)	Voltage (VDC)					Current Max (mA)	Current Min (mA)	Rating	Voltage (VDC)	Current Max (mA)			
WDCV01S-12003	12 (4.5-18)	3.3	303	15	100/150	73/75	2700	WDCV01S-24015	24 (9-36)	15	67	3	70/100	81/83	470		
WDCV01S-12005		5	200	10	100/150	74/78	2200	WDCV01S-24024		24	42	2		81/83	330		
WDCV01S-12008		9	111	8	100/150	78/80	1000	WDCV01S-24005		± 5	± 100	± 5		77/79	#1000		
WDCV01S-12012		12	83	4	100/150	80/82	680	WDCV01S-24012		± 12	± 42	± 2		81/83	#470		
WDCV01S-12015		15	67	3	100/150	81/83	470	WDCV01S-24015		± 15	± 33	± 2		81/83	#330		
WDCV01S-12024		24	42	2	100/150	79/81	330	WDCV01S-48003	48 (18-75)	3.3	303	15	100/150	73/75	2700		
WDCV01S-12005		± 5	± 100	± 5	100/150	78/78	#1000	WDCV01S-48005		5	200	10		74/78	2200		
WDCV01S-12012		± 12	± 42	± 2	100/150	77/79	#470	WDCV01S-48012		12	83	4		78/80	680		
WDCV01S-12015		± 15	± 33	± 2	100/150	78/80	#330	WDCV01S-48015		15	67	3		82/84	470		
WDCV01S-24003		3.3	303	15	70/100	82/74	2700	WDCV01S-48005		± 5	± 100	± 5		77/79	#1000		
WDCV01S-24005	5	200	10	70/100	79/81	2200	WDCV01S-48012	± 12		± 42	± 2	80/82		#470			
WDCV01S-24012	12	83	4	70/100	87/83	680	WDCV01S-48015	± 15		± 33	± 2	80/82		#330			

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
3	Ctrl	Ctrl
5	NC	NC
6	+Vo	+Vo
7	-Vo	COM
8	NC	-Vo

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ± 0.10 [± 0.004]

Unremarked tolerances: ± 0.50 [± 0.020]

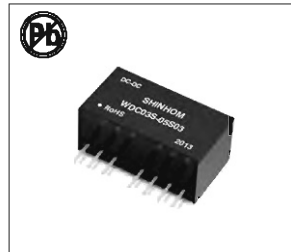
2.5~3W DC-DC CONVERTER

FEATURES:

Packaging: SIP8
 2:1 Wide input voltage range
 Operating Temperature: -40°C – 85°C
 Isolation Voltage: 1500VDC
 The maximum efficiency can reach 84%
 With input undervoltage, output overcurrent,
 short circuit, over voltage protection

APPLICATION:

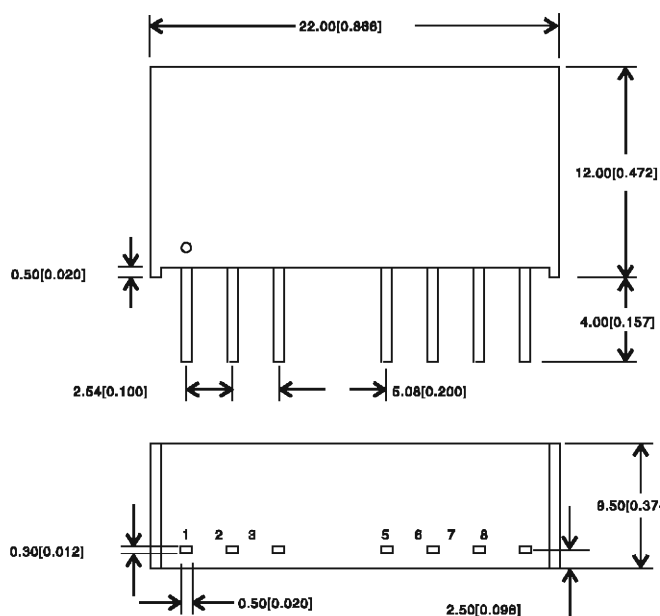
Electric power
 Industrial control
 Communication
 IoT
 Automobile



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output			Ripple&Noise (Max./Max.) MVP-P	Full Load Efficiency (% Typ)	Capacitive Load,Max (uF)	Part Number	Input Voltage(VDC)		Output			Ripple&Noise (Max./Max.) MVP-P	Full Load Efficiency (% Typ)	Capacitive Load,Max (uF)		
	Rating		Voltage (VDC)	Current Max (mA)	Current Min (mA)					Rating		Voltage (VDC)	Current Max (mA)	Current Min (mA)					
WDC03S-05B03	5 (4.5-9)		3.3	768	38	40/75	88	1800	WDC03S-24B03	24 (18-36)		3.3	768	38	100/150	74	2700		
WDC03S-05B05			5	500	25		73	2200	WDC03S-24B05			5	600	30		81	2200		
WDC03S-05B12			12	208	10		77	680	WDC03S-24B12			12	250	13		83	680		
WDC03S-05B15			15	167	8		74	470	WDC03S-24B15			15	200	10		83	470		
WDC03S-05B24			24	104	5		76	330	WDC03S-24B24			24	125	6		83	330		
WDC03S-06D05			±5	±300	±13		74	#1000	WDC03S-48B05			±5	±300	±15		79	#1000		
WDC03S-06D12			±12	±104	±6		77	#470	WDC03S-48D12			±12	±125	±6		40/75	83	#470	
WDC03S-06D15			±15	±83	±4		77	#330	WDC03S-48D15			±15	±100	±5		83	#330		
WDC03S-06D24			±24	±52	±3		76	#220	WDC03S-48B03			3.3	758	38		100/150	75	2700	
WDC03S-12B03		12 (9-18)		3.3	758		38	70/100	75		2700	WDC03S-48B05	48 (36-75)			5	600	30	40/75
WDC03S-12B05			5	600	30	76	2200		WDC03S-48B12		12	250		13	80	680			
WDC03S-12B12			12	250	13	82	680		WDC03S-48B15		15	200		10	40/75	84	470		
WDC03S-12B15			15	200	10	83	470		WDC03S-48B24		24	125		6	70/100	82	330		
WDC03S-12B24			24	125	6	100/150	81		330	WDC03S-48D05		±5		±300	±15	100/150	79	#1000	
WDC03S-12D05			±5	±300	±15	40/75	78		#1000	WDC03S-48D12		±12		±125	±6	40/75	82	#470	
WDC03S-12D12			±12	±125	±6		79		#470	WDC03S-48D15		±15		±100	±5		82	#330	
WDC03S-12D15			±15	±100	±5		80		#330										
WDC03S-12D18																			

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
3	Ctri	Ctri
5	NC	NC
6	+Vo	+Vo
7	-Vo	COM
8	NC	-Vo

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ±0.10[±0.004]

Unremarked tolerances: ±0.50[±0.020]

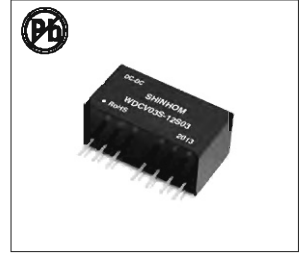
3W DC-DC CONVERTER

FEATURES:

- Packaging: SIP8
- 4:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- The maximum efficiency can reach 81%
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

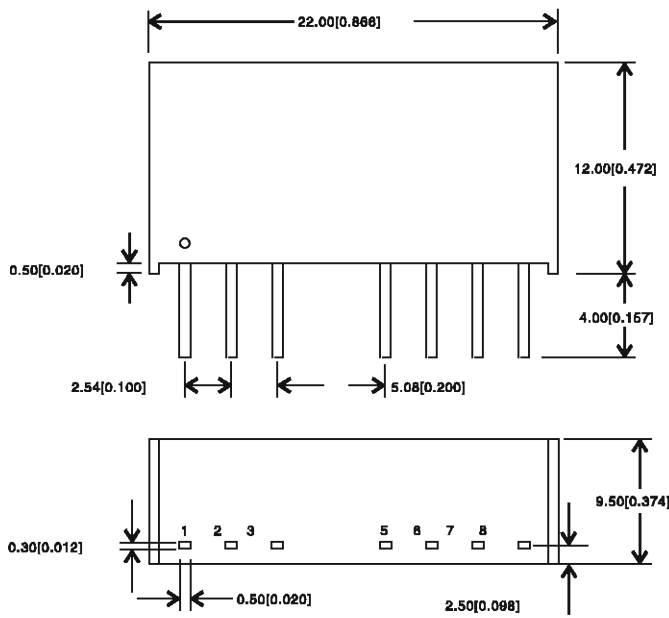
- Electric power
- Industrial control
- Communication
- IoT
- Rail transit



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)	Part Number	Input Voltage(VDC)	Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Voltage (VDC)	Current Max (mA)				Rating	Voltage (VDC)	Current Max (mA)		
WDCV03S-12S03	12 (4.5-18)	3.3	700	74	1760	WDCV03S-24D05	24 (9-36)	±5	±300	78	#470
WDCV03S-12S05		5	600	78	1000	WDCV03S-24D12		±12	±125	80	#100
WDCV03S-12S12		12	250	80	170	WDCV03S-24D15		±15	±100	81	#47
WDCV03S-12S15		15	200	80	110	WDCV03S-48S03	48 (18-75)	3.3	700	74	1760
WDCV03S-12D05		±5	±300	80	#470	WDCV03S-48S05		5	600	76	1000
WDCV03S-12D12		±12	±125	80	#100	WDCV03S-48S12		12	250	76	170
WDCV03S-12D15		±15	±100	80	#47	WDCV03S-48S15		15	200	76	110
WDCV03S-24S03		24 (9-36)	3.3	700	75	1760		WDCV03S-48D05	±5	±300	78
WDCV03S-24S05	5		600	80	1000	WDCV03S-48D12		±12	±125	78	#100
WDCV03S-24S12	12		250	81	170	WDCV03S-48D15		±15	±100	80	#47
WDCV03S-24S15	15		200	81	110						

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
3	Ctrl	Ctrl
5	NC	NC
6	+Vo	+Vo
7	-Vo	COM
8	NC	-Vo

NC: Cannot be connected to any external circuit
 Dimensions: in mm
 Terminal diameter tolerance: ±0.10 [±0.004]
 Unremarked tolerances: ±0.50 [±0.020]

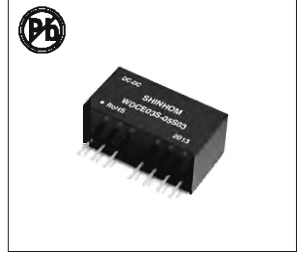
3W DC-DC CONVERTER

FEATURES:

- Packaging: SIP8
- 2:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 3000VDC
- The maximum efficiency can reach 84%
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

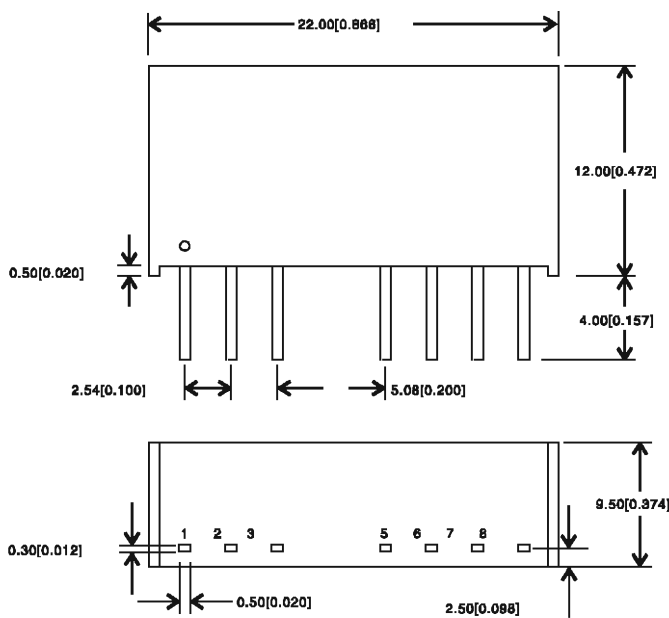
- Electric power
- Industrial control
- Communication
- IoT
- Automobile
- Rail transit



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output			Ripple&Noise (Max./Max.) MVP-P	Full Load Efficiency (% Typ)	Capacitive Load,Max (uF)	Part Number	Input Voltage(VDC)		Output			Ripple&Noise (Max./Max.) MVP-P	Full Load Efficiency (% Typ)	Capacitive Load,Max (uF)	
	Rating	Rating	Voltage (VDC)	Current Max (mA)	Current Min (mA)					Rating	Rating	Voltage (VDC)	Current Max (mA)	Current Min (mA)				
WDCE03S-05S03	5 (4.5-9)		3.3	758	38	40/75	68	1800	WDCE03S-24S03	24 (18-36)		3.3	758	38	40/75	74	2700	
WDCE03S-05S05			5	500	25		73	2200	WDCE03S-24S05			5	600	30		81	2200	
WDCE03S-05S12			12	208	10		77	681	WDCE03S-24S12			12	250	13		83	680	
WDCE03S-05S15			15	167	8		74	470	WDCE03S-24S15			15	200	10		83	470	
WDCE03S-05S24			24	104	5		78	330	WDCE03S-24S24			24	125	8		83	330	
WDCE03S-06D05			±5	±300	±13		74	#1000	WDCE03S-24D05			±5	±300	±15		79	#1000	
WDCE03S-06D12			±12	±104	±5		77	#470	WDCE03S-24D12			±12	±125	±8		40/75	83	#470
WDCE03S-06D15			±15	±83	±4		77	#330	WDCE03S-24D15			±15	±100	±5		83	#330	
WDCE03S-06D24			±24	±52	±3		76	#220	WDCE03S-48S03			48 (36-75)		3.3		758	38	100/150
WDCE03S-12S03	12 (9-18)		3.3	758	38	70/100	75	2700	WDCE03S-48S05	5	600			30	40/75	76	2200	
WDCE03S-12S05			5	600	30		78	2200	WDCE03S-48S12	12	250			13	80	680		
WDCE03S-12S12			12	250	13		82	680	WDCE03S-48S15	15	200			10	40/75	84	470	
WDCE03S-12S15			15	200	10		83	470	WDCE03S-48S24	24	125			8	70/100	82	330	
WDCE03S-12S24			24	125	8		100/150	81	330	WDCE03S-48D05	±5			±300	±15	100/150	79	#1000
WDCE03S-12D05			±5	±300	±15		78	#1000	WDCE03S-48D12	±12	±125			±8	40/75	82	#470	
WDCE03S-12D12			±12	±125	±6		79	#470	WDCE03S-48D15	±15	±100			±5	82	#330		
WDCE03S-12D15			±15	±100	±5		80	#330										

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
3	Ctrl	Ctrl
5	NC	NC
6	+Vo	+Vo
7	-Vo	COM
8	NC	-Vo

NC: Cannot be connected to any external circuit
 Dimensions: in mm
 Terminal diameter tolerance: ±0.10 [±0.004]
 Unremarked tolerances: ±0.50 [±0.020]

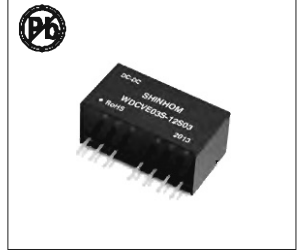
3W DC-DC CONVERTER

FEATURES:

- Packaging: SIP8
- 4:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 3000VDC
- The maximum efficiency can reach 81%
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

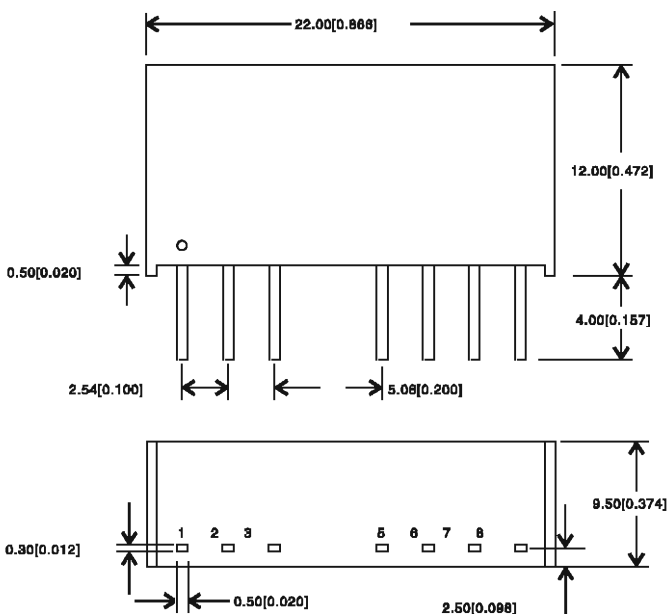
- Electric power
- Industrial control
- Communication
- IoT
- Automobile
- Rail transit



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)	Part Number	Input Voltage(VDC)	Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Voltage (VDC)	Current Max (mA)				Rating	Voltage (VDC)	Current Max (mA)		
WDCVE03S-12S03	12 (4.5-18)	3.3	700	74	1780	WDCVE03S-24D05	24 (9-36)	±5	±300	79	#470
WDCVE03S-12S05		5	800	78	1000	WDCVE03S-24D12		±12	±125	80	#100
WDCVE03S-12S12		12	250	80	170	WDCVE03S-24D15		±15	±100	81	#47
WDCVE03S-12S15		15	200	80	110	WDCVE03S-48S03	48 (18-75)	3.3	700	74	1780
WDCVE03S-12D05		±5	±300	80	#470	WDCVE03S-48S05		5	800	78	1000
WDCVE03S-12D12		±12	±125	80	#100	WDCVE03S-48S12		12	250	78	170
WDCVE03S-12D15		±15	±100	80	#47	WDCVE03S-48S15		15	200	78	110
WDCVE03S-24S03		24 (9-36)	3.3	700	75	1780		WDCVE03S-48D05	±5	±300	76
WDCVE03S-24S05	5		800	80	1000	WDCVE03S-48D12		±12	±125	78	#100
WDCVE03S-24S12	12		250	81	170	WDCVE03S-48D15		±15	±100	80	#47
WDCVE03S-24S15	15		200	81	110						

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
3	Ctrl	Ctrl
5	NC	NC
6	+Vo	+Vo
7	-Vo	COM
8	NC	-Vo

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

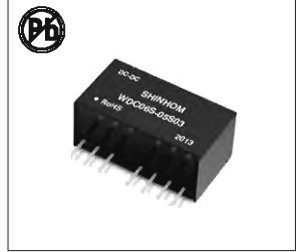
6W DC-DC CONVERTER

FEATURES:

Packaging: SIP8
 2:1 Wide Input voltage range
 Operating Temperature: -40°C – 85°C
 Isolation Voltage: 1500VDC
 The maximum efficiency can reach 88%
 With input undervoltage, output overcurrent,
 short circuit, over voltage protection

APPLICATION:

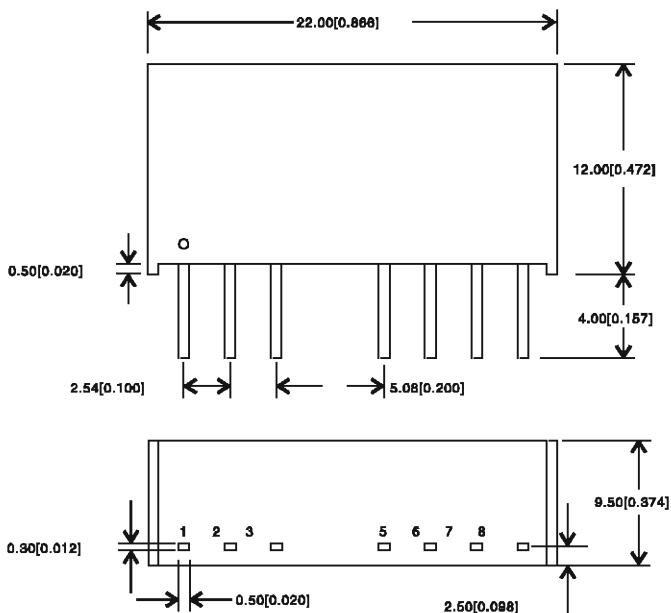
Electric power
 Industrial control
 Communication
 IoT
 Automobile
 Rail transit



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)	Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDC06S-05S03	5 (4.5-9)	12	3.3	1350/0	75	1800	WDC06S-24S03	24 (18-36)	40	3.3	1350/0	79	1800
WDC06S-05S05			5	1200/0	79	1000	WDC06S-24S05			5	1200/0	83	1000
WDC06S-05S09			9	667/0	81	470	WDC06S-24S09			9	667/0	85	470
WDC06S-05S12			12	500/0	83	470	WDC06S-24S12			12	500/0	87	470
WDC06S-05S15			15	400/0	83	220	WDC06S-24S15			15	400/0	88	220
WDC06S-05S24			24	250/0	84	100	WDC06S-24S24			24	250/0	88	100
WDC06S-12S03	12 (9-18)	20	3.3	1350/0	77	1800	WDC06S-48S03	48 (36-75)	80	3.3	1350/0	79	1800
WDC06S-12S05			5	1200/0	81	1000	WDC06S-48S05			5	1200/0	84	1000
WDC06S-12S09			9	667/0	83	470	WDC06S-48S09			9	667/0	85	470
WDC06S-12S12			12	500/0	85	470	WDC06S-48S12			12	500/0	87	470
WDC06S-12S15			15	400/0	85	220	WDC06S-48S15			15	400/0	88	220
WDC06S-12S24			24	250/0	85	100	WDC06S-48S24			24	250/0	88	100

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
3	Ctrl	Ctrl
5	NC	NC
6	+Vo	+Vo
7	-Vo	COM
8	NC	-Vo

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10[±0.004]

Unremarked tolerances: ±0.50[±0.020]

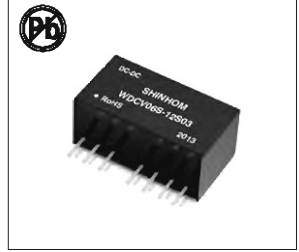
6W DC-DC CONVERTER

FEATURES:

- Packaging: SIP8
- 4:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- The maximum efficiency can reach 88%
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

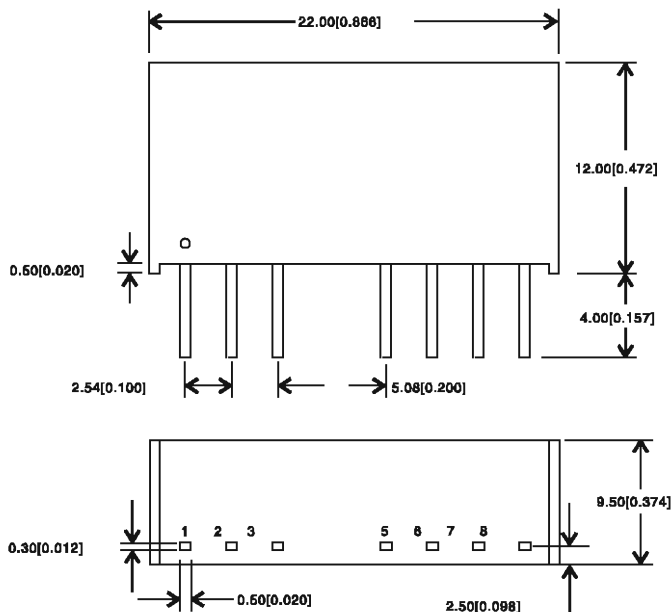
- Electric power
- Industrial control
- Communication
- IoT
- Automobile



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (%Typ)	Capacitive Load,Max (uF)	Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (%Typ)	Capacitive Load,Max (uF)		
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				Rating	Max	Voltage (VDC)	Current Max/Min(mA)				
WDCV06S-12D03	12 (4.5-18)	25	3.3	1350/0	75	1800	WDCV06S-24D05	24 (9-36)	40	±5	±600/0	80	#470		
WDCV06S-12D05			5	1200/0	79	1000	WDCV06S-24D09			±9	±333/0	83	#220		
WDCV06S-12D09			9	667/0	81	470	WDCV06S-24D12			±12	±250/0	83	#120		
WDCV06S-12D12			12	500/0	83	470	WDCV06S-24D15			±15	±200/0	83	#100		
WDCV06S-12D15			15	400/0	84	220	WDCV06S-24D24			±24	±125/0	82	#68		
WDCV06S-12D24			24	250/0	82	100	WDCV06S-48D03			48 (18-75)	80	3.3	1350/0	79	1800
WDCV06S-12D06			±5	±600/0	77	#470	WDCV06S-48D06	5	1200/0			83	1000		
WDCV06S-12D08			±9	±333/0	81	#220	WDCV06S-48D09	9	667/0			85	470		
WDCV06S-12D12			±12	±250/0	81	#120	WDCV06S-48D12	12	500/0			87	470		
WDCV06S-12D15			±15	±200/0	83	#100	WDCV06S-48D15	15	400/0			88	220		
WDCV06S-12D24			±24	±125/0	82	#68	WDCV06S-48D24	24	250/0			88	100		
WDCV06S-24D03			24 (9-36)	40	3.3	1350/0	78	1800	WDCV06S-48D05			±5	±600/0	81	#470
WDCV06S-24D05					5	1200/0	82	1000	WDCV06S-48D09			±9	±333/0	84	#220
WDCV06S-24D09					9	667/0	84	470	WDCV06S-48D12			±12	±250/0	84	#120
WDCV06S-24D12	12	500/0			86	470	WDCV06S-48D15	±15	±200/0			84	#100		
WDCV06S-24D15	15	400/0			87	220	WDCV06S-48D24	±24	±125/0			83	#68		
WDCV06S-24D24	24	250/0			85	100									

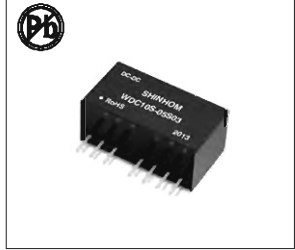
PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	V _{in}	V _{in}
3	Ctrl	Ctrl
5	NC	NC
6	+V _o	+V _o
7	-V _o	COM
8	NC	-V _o

NC: Cannot be connected to any external circuit
 Dimensions: in mm
 Terminal diameter tolerance: ±0.10 [±0.004]
 Unremarked tolerances: ±0.50 [±0.020]

10W DC-DC CONVERTER



FEATURES:

- Packaging: SIP8
- 2:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- The maximum efficiency can reach 88%
- With Input undervoltage, output overcurrent, short circuit, over voltage protection

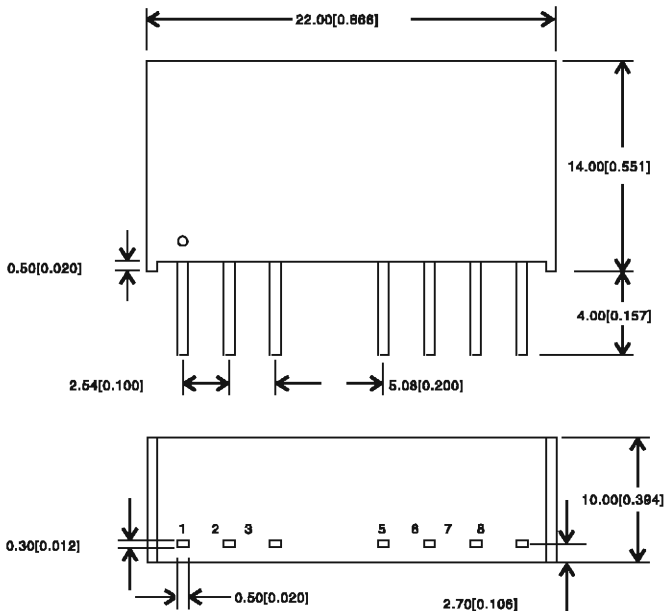
APPLICATION:

- Electric power
- Industrial control
- Communication
- IoT
- Automobile
- Rail transit

ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)	Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)		
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				Rating	Max	Voltage (VDC)	Current Max/Min(mA)				
WDC10S-05S03	5 (4.5-9)	12	3.3	2400/0	79	2200	WDC10S-12S12	12 (9-18)	20	12	833/0	86	470		
WDC10S-05S05			5	2000/0	82	2200	WDC10S-12S15			15	667/0	86	330		
WDC10S-05S09			9	1111/0	83	660	WDC10S-12S24			24	417/0	86	220		
WDC10S-05S12			12 (9-18)	20	12	833/0	83	470	WDC10S-24S03	24 (18-36)	40	3.3	2400/0	85	2200
WDC10S-05S15					15	667/0	84	330	WDC10S-24S05			5	2000/0	88	2200
WDC10S-05S24					24	417/0	85	220	WDC10S-24S09			9	1111/0	88	660
WDC10S-12S03					12 (9-18)	20	3.3	2400/0	83			2200	WDC10S-24S12	12	833/0
WDC10S-12S05	5	2000/0					86	2200	WDC10S-24S15			15	667/0	88	330
WDC10S-12S09	9	1111/0					86	660	WDC10S-24S24			24	417/0	88	220

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
3	Ctrl	Ctrl
5	NC	NC
6	+Vo	+Vo
7	-Vo	COM
8	NC	-Vo

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ±0.10[±0.004]

Unremarked tolerances: ±0.50[±0.020]

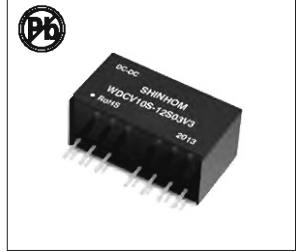
10W DC-DC CONVERTER

FEATURES:

Packaging: SIP8
 4:1 Wide input voltage range
 Operating Temperature: -40°C - 85°C
 Isolation Voltage: 1500VDC
 The maximum efficiency can reach 88%
 With input undervoltage, output overcurrent,
 short circuit, over voltage protection

APPLICATION:

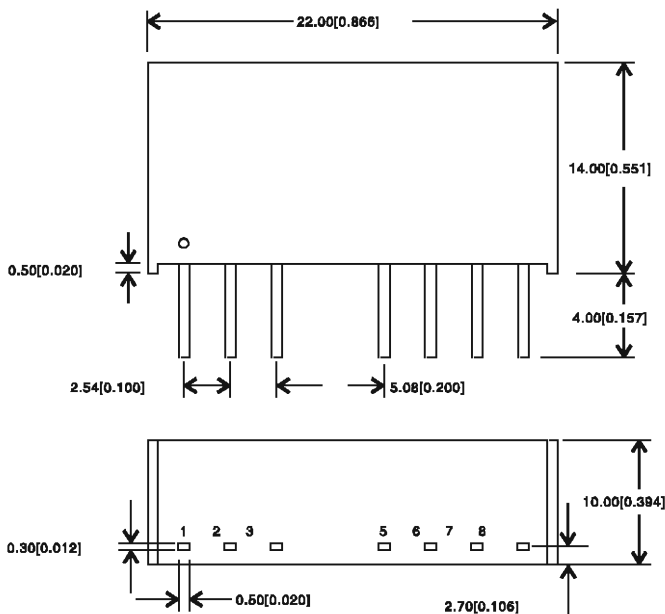
Electric power
 Industrial control
 Communication
 IoT
 Automobile
 Rail transit



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load,Max (uF)	Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load,Max (uF)				
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				Rating	Max	Voltage (VDC)	Current Max/Min(mA)						
WDCV10S-12S03V3	12 (4.5-18)	25	3.3	2400/0	80	1200	WDCV10S-12S03V3	24 (9-36)	40	24	416/0	86	100				
WDCV10S-12S05V3			5	2000/0	81	1000	WDCV10S-12S05V3			±5	±1000/0	81	#1000				
WDCV10S-12S12V3			12	833/0	83	470	WDCV10S-12S12V3			±12	±416/0	83	#470				
WDCV10S-12S15V3			15	667/0	84	330	WDCV10S-12S15V3			±15	±333/0	84	#330				
WDCV10S-12S24V3			24	416/0	86	100	WDCV10S-12S24V3			3.3	2400/0	83	1200				
WDCV10S-12D05V3			±5	±1000/0	81	#1000	WDCV10S-12D05V3			5	2000/0	83	1000				
WDCV10S-12D12V3			±12	±416/0	83	#470	WDCV10S-12D12V3			12	833/0	84	470				
WDCV10S-12D15V3			±15	±333/0	84	#330	WDCV10S-12D15V3			15	667/0	84	330				
WDCV10S-24S03V3			24 (9-36)	40	3.3	2400/0	80			1200	WDCV10S-24S03V3	48 (18-75)	80	24	416/0	87	100
WDCV10S-24S05V3					5	2000/0	82			1000	WDCV10S-24S05V3			±5	±1000/0	83	#1000
WDCV10S-24S12V3	12	833/0			84	470	WDCV10S-24S12V3	±12	±416/0	84	#470						
WDCV10S-24S15V3	15	667/0			84	330	WDCV10S-24S15V3	±15	±333/0	84	#330						

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
3	Ctrl	Ctrl
5	NC	NC
6	+Vo	+Vo
7	-Vo	COM
8	NC	-Vo

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

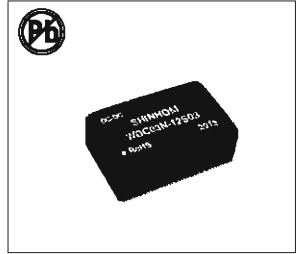
3W DC-DC CONVERTER

FEATURES:

Packaging: DIP16
 2:1 Wide input voltage range
 Operating Temperature: -40°C – 85°C
 Isolation Voltage: 1500VDC
 The maximum efficiency can reach 80%
 With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

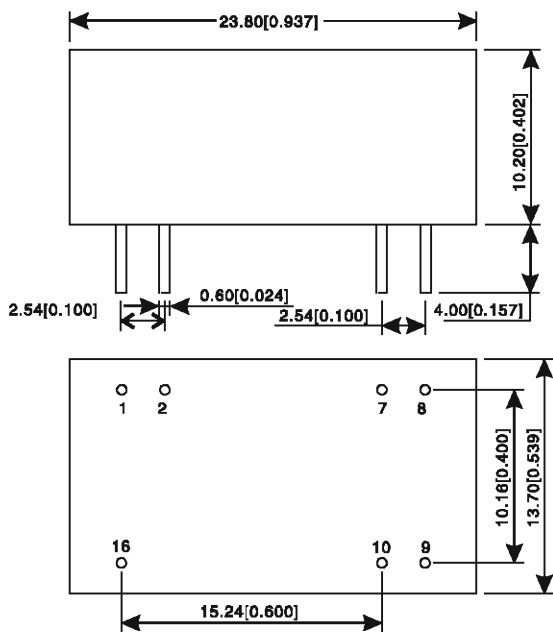
Electric power
 Industrial control
 Communication
 IoT
 Automobile



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output		Input Current		Full Load Efficiency (%Typ)	Capacitive Load,Max (uF)
	Rating	Voltage (VDC)	Current Max/Min(mA)	Full-load current(mA)Max	No-load current(mA)Max		
WDC03N-12S03	12 (9-18)	3.3	800/0	278	30	73/75	220
WDC03N-12S05		5	800/0	314		78/78	220
WDC03N-12S12		12	250/0	314		78/80	47
WDC03N-12S15		15	200/0	314		78/80	47
WDC03N-12S24		24	125/0	314		78/80	47
WDC03N-12D05		±5	±300/0	314		75/77	#47
WDC03N-12D12		±12	±125/0	314		78/80	#47
WDC03N-12D15		±15	±100/0	314		78/80	#47
WDC03N-24S03		24 (18-38)	3.3	600/0		140	30
WDC03N-24S05	5		600/0	156	76/78	220	
WDC03N-24S12	12		250/0	156	78/80	47	
WDC03N-24S15	15		200/0	156	78/80	47	
WDC03N-24S24	24		125/0	156	78/80	47	
WDC03N-24D05	±5		±300/0	#156	75/77	#47	
WDC03N-24D12	±12		±125/0	#156	78/80	#47	
WDC03N-24D15	±15		±100/0	#156	78/80	#47	

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	NO PIN	NO PIN
7	NC	NC
8	NC	COM
9	+Vo	+Vo
10	-Vo	-Vo
16	Vin	Vin

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ±0.10[±0.004]

Unremarked tolerances: ±0.50[±0.020]

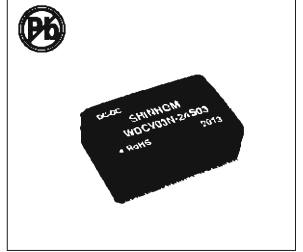
3W DC-DC CONVERTER

FEATURES:

Packaging: DIP16
 4:1 Wide Input voltage range
 Operating Temperature: -40°C - 85°C
 Isolation Voltage: 1500VDC
 The maximum efficiency can reach 80%
 With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

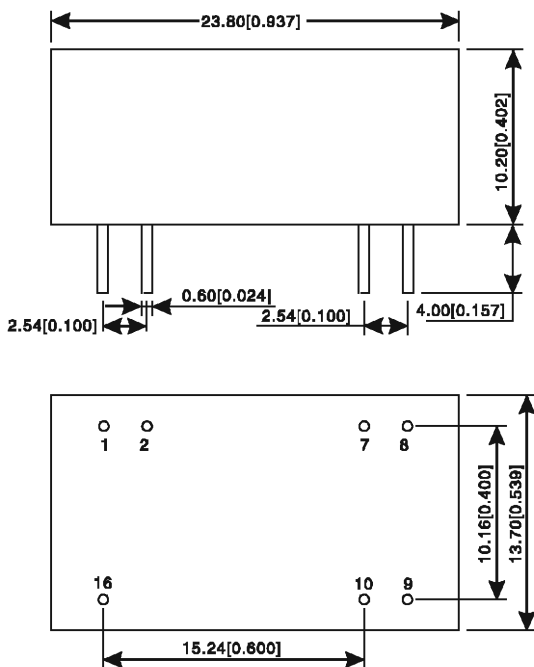
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ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output		Input Current		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Voltage (VDC)	Current Max/Min(mA)	Full-load current(mA)Max	No-load current(mA)Max		
WDCV03N-24S03	24 (9-36)	3.3	600/0	110	30	73/75	220
WDCV03N-24S05		5	600/0	160		76/78	220
WDCV03N-24S12		12	250/0	156		78/80	47
WDCV03N-24S15		15	200/0	156		78/80	47
WDCV03N-24S24		24	125/0	156		78/80	47
WDCV03N-24D05		±5	±300/0	162		75/77	#47
WDCV03N-24D12		±12	±125/0	156		78/80	#47
WDCV03N-24D15		±15	±100/0	156		78/80	#47
WDCV03N-48S03		48 (18-75)	3.3	600/0		55	20
WDCV03N-48S05	5		600/0	88	76/78	220	
WDCV03N-48S12	12		250/0	78	78/80	47	
WDCV03N-48S15	15		200/0	78	78/80	47	
WDCV03N-48S24	24		125/0	78	78/80	47	
WDCV03N-48D05	±5		±300/0	81	75/77	#47	
WDCV03N-48D12	±12		±125/0	78	78/80	#47	
WDCV03N-48D15	±15		±100/0	78	78/80	#47	

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Ctrl	Ctrl
7	NC	NC
8	NC	COM
9	+Vo	+Vo
10	-Vo	-Vo
16	Vin	Vin

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10[±0.004]

Unremarked tolerances: ±0.50[±0.020]

6W DC-DC CONVERTER

FEATURES:

- Packaging: DIP16
- 2:1 Wide input voltage range
- Operating Temperature: -40°C – 88°C
- Isolation Voltage: 1500VDC
- The maximum efficiency can reach 88%
- With Input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

- Electric power
- Industrial control
- Communication
- IoT
- Automobile

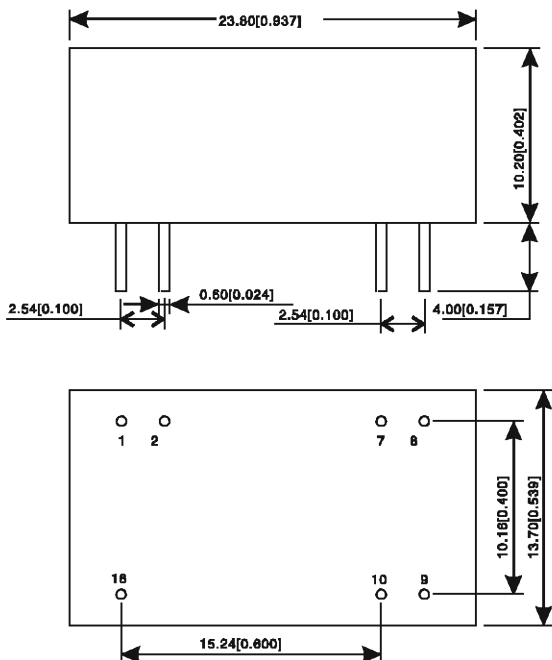


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Input Current		Full Load Efficiency (%Typ)	Capacitive Load Max (uF)	
	Rating	Voltage (VDC)	Current Max/Min(mA)	Full-load current(mA) Max	No-load current(mA) Max				
WDC06N-12803	12 (8-18)	3.3	1500/0	284	10	78/80	680		
WDC06N-12805		5	1200/0	305		81/83	680		
WDC06N-12812		12	500/0	291		85/87	330		
WDC06N-12815		15	400/0	291		86/88	330		
WDC06N-12824		24	250/0	287		86/88	150		
WDC06N-12D05		± 5	± 500/0	305		80/82	±330		
WDC06N-12D12		± 12	± 250/0	291		85/87	±150		
WDC06N-12D15		± 15	± 200/0	287		85/87	±150		
WDC06N-24803		24 (8-36)	3.3	1500/0		132	7	78/80	680
WDC06N-24805			5	1200/0		152		81/83	680
WDC06N-24812	12		500/0	145	85/87	330			
WDC06N-24815	15		400/0	145	86/88	330			

Part Number	Input Voltage(VDC)		Output		Input Current		Full Load Efficiency (%Typ)	Capacitive Load Max (uF)
	Rating	Voltage (VDC)	Current Max/Min(mA)	Full-load current(mA) Max	No-load current(mA) Max			
WDC06N-24824	24 (8-36)	24	250/0	144	7	88/88	150	
WDC06N-24D05		± 5	± 500/0	152		80/82	±330	
WDC06N-24D12		± 12	± 250/0	144		85/87	±150	
WDC06N-24D15		± 15	± 200/0	144		85/87	±150	
WDC06N-48803	48 (36-75)	3.3	1500/0	129	8	78/80	680	
WDC06N-48805		5	1200/0	151		81/83	680	
WDC06N-48812		12	500/0	144		85/87	330	
WDC06N-48815		15	400/0	142		86/88	330	
WDC06N-48824		24	250/0	142		88/88	150	
WDC06N-48D05		± 5	± 500/0	151		81/83	±330	
WDC06N-48D12		± 12	± 250/0	144		85/87	±150	
WDC06N-48D15		± 15	± 200/0	144		85/87	±150	

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	NO PIN	NO PIN
7	NC	NC
8	NC	COM
9	+Vo	+Vo
10	-Vo	-Vo
18	Vin	Vin

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ± 0.10[± 0.004]

Unremarked tolerances: ± 0.50[± 0.020]

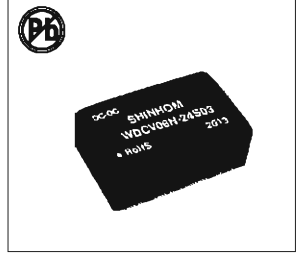
6W DC-DC CONVERTER

FEATURES:

Packaging: DIP16
 4:1 Wide Input voltage range
 Operating Temperature: -40°C – 88°C
 Isolation Voltage: 1500VDC
 The maximum efficiency can reach 87%
 With input undervoltage, output overcurrent,
 short circuit, over voltage protection

APPLICATION:

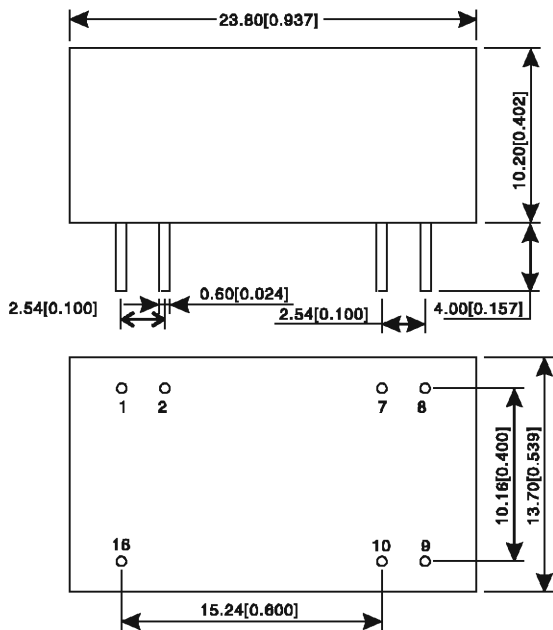
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ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output		Input Current		Full Load Efficiency (%Typ)	Capacitive Load,Max (uF)
	Rating	Current Max/Min(mA)	Voltage (VDC)	Full-load current(mA)Max	No-load current(mA)Max		
WDCV06N-24S03	24 (9-36)	3.3	1500/0	264	8	76/78	680
WDCV06N-24S05		5	1200/0	305		80/82	680
WDCV06N-24S12		12	500/0	291		84/86	330
WDCV06N-24S15		15	400/0	291		84/86	330
WDCV06N-24S24		24	250/0	287		85/87	150
WDCV06N-24D05		± 5	± 500/0	305		80/82	#330
WDCV06N-24D12		± 12	± 250/0	291		84/86	#150
WDCV06N-24D15		± 15	± 200/0	287		85/87	#150
WDCV06N-48S03		48 (18-75)	3.3	1500/0		132	6
WDCV06N-48S05	5		1200/0	152	80/82	680	
WDCV06N-48S12	12		500/0	145	84/86	330	
WDCV06N-48S15	15		400/0	145	84/86	330	
WDCV06N-48S24	24		250/0	144	85/87	150	
WDCV06N-48D05	± 5		± 500/0	152	80/82	#330	
WDCV06N-48D12	± 12		± 250/0	144	85/87	#150	
WDCV06N-48D15	± 15		± 200/0	144	85/87	#150	

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	NO PIN	NO PIN
7	NC	NC
8	NC	COM
9	+Vo	+Vo
10	-Vo	-Vo
16	Vin	Vin

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ± 0.10[± 0.004]

Unremarked tolerances: ± 0.50[± 0.020]

10W DC-DC CONVERTER

FEATURES:

- Packaging: DIP16
- 2:1 Wide Input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- The maximum efficiency can reach 88%
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

- Electric power
- Industrial control
- Communication
- IoT
- Automobile

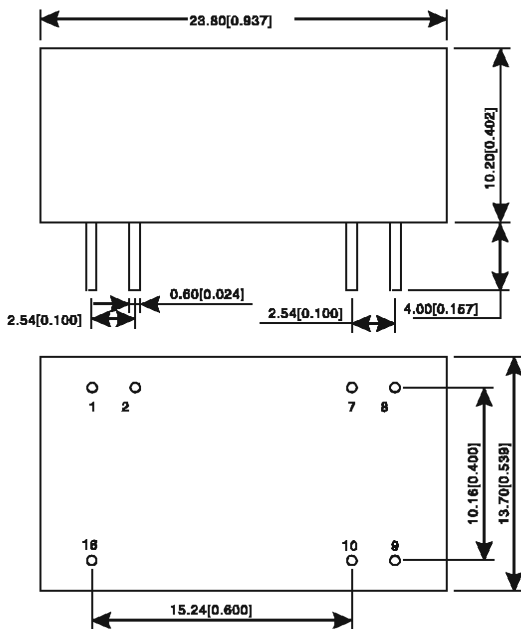


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Input Current		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)	
	Rating	Voltage (VDC)	Current Max/Min(mA)	Full-load current(mA) Max	No-load current(mA) Max				
WDC10N-12903	12 (8-18)	3.3	2400/0	940	20	77/79	2800		
WDC10N-12905		5	2000/0	1016		81/82	1300		
WDC10N-12912		12	833/0	989		84/86	560		
WDC10N-12915		15	667/0	967		85/87	560		
WDC10N-12924		24	416/0	958		85/87	200		
WDC10N-12005		5	± 1000/0	1016		81/82	±560		
WDC10N-12012		12	± 416/0	967		84/86	±360		
WDC10N-12015		15	± 333/0	988		84/86	±200		
WDC10N-24903		24 (18-36)	3.3	2400/0		464	10	78/80	2600
WDC10N-24905			5	2000/0		502		81/83	1300
WDC10N-24912	12		833/0	479	85/87	560			
WDC10N-24915	15		667/0	478	88/88	560			

Part Number	Input Voltage(VDC)		Output		Input Current		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Voltage (VDC)	Current Max/Min(mA)	Full-load current(mA) Max	No-load current(mA) Max			
WDC10N-24924	24 (18-36)	24	416/0	478	10	88/88	200	
WDC10N-24005		± 5	± 1000/0	502		81/83	±560	
WDC10N-24012		± 12	± 416/0	478		85/87	±360	
WDC10N-24015		± 15	± 333/0	478		85/87	±200	
WDC10N-48903	48 (36-75)	3.3	2400/0	232	8	78/80	2600	
WDC10N-48905		5	2000/0	251		81/83	1300	
WDC10N-48912		12	833/0	239		85/87	560	
WDC10N-48915		15	667/0	237		88/88	560	
WDC10N-48924		24	416/0	236		88/88	200	
WDC10N-48005		± 5	± 1000/0	251		81/83	±560	
WDC10N-48012		± 12	± 416/0	239		85/87	±360	
WDC10N-48015		± 15	± 333/0	239		85/87	±200	

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	NO PIN	NO PIN
7	NC	NC
8	NC	COM
9	+Vo	+Vo
10	-Vo	-Vo
16	Vin	Vin

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: 0.10 [0.004]

Unremarked tolerance: 0.50 [0.020]

10W DC-DC CONVERTER



FEATURES:

Packaging: DIP16
 2:1 Wide input voltage range
 Operating Temperature: -40°C – 88°C
 Isolation Voltage: 1500VDC
 The maximum efficiency can reach 88%
 With input undervoltage, output overcurrent, short circuit, over voltage protection

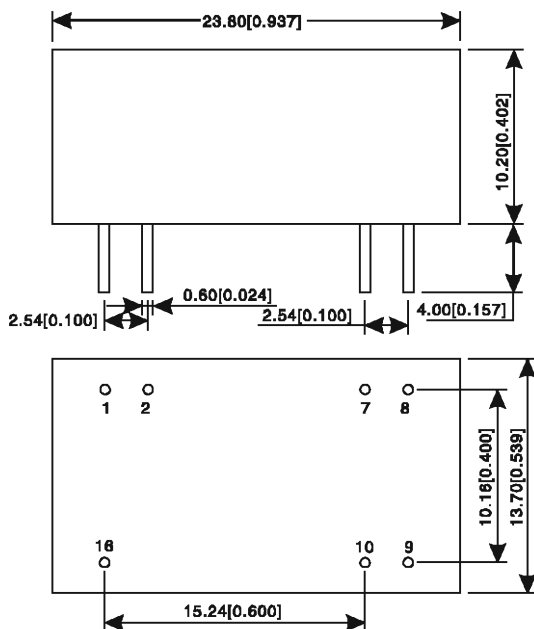
APPLICATION:

Electric power
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ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)	Output		Input Current		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Current Max/Min(mA)	Voltage (VDC)	Full-load current(mA)Max	No-load current(mA)Max		
WDCV10N-24S03	24 (9-36)	3.3	2700	464	10	78/80	2600
WDCV10N-24S05		5	2000	502		81/83	1300
WDCV10N-24S12		12	833	479		85/87	560
WDCV10N-24S15		15	666	473		86/88	560
WDCV10N-24S24		24	416	473		86/88	200
WDCV10N-24D05		±5	±1000/0	502		81/83	#560
WDCV10N-24D12		±12	±416	478		85/87	#390
WDCV10N-24D15		±15	±333	478		84/87	#200
WDCV10N-48S03		48 (18-75)	3.3	2700		232	8
WDCV10N-48S05	5		2000	251	81/83	1300	
WDCV10N-48S12	12		833	239	85/87	560	
WDCV10N-48S15	15		666	237	86/88	560	
WDCV10N-48S24	24		416	236	86/88	200	
WDCV10N-48D05	±5		±1000/0	251	81/83	#560	
WDCV10N-48D12	±12		±416	239	85/87	#390	
WDCV10N-48D15	±15		±333	239	85/87	#200	

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	NO PIN	NO PIN
7	NC	NC
8	NC	COM
9	+Vo	+Vo
10	-Vo	-Vo
16	Vin	Vin

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

3W DC-DC CONVERTER

FEATURES:

- Packaging: DIP24
- 2:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- The maximum efficiency can reach 86%
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

- Electric power
- Industrial control
- Medical

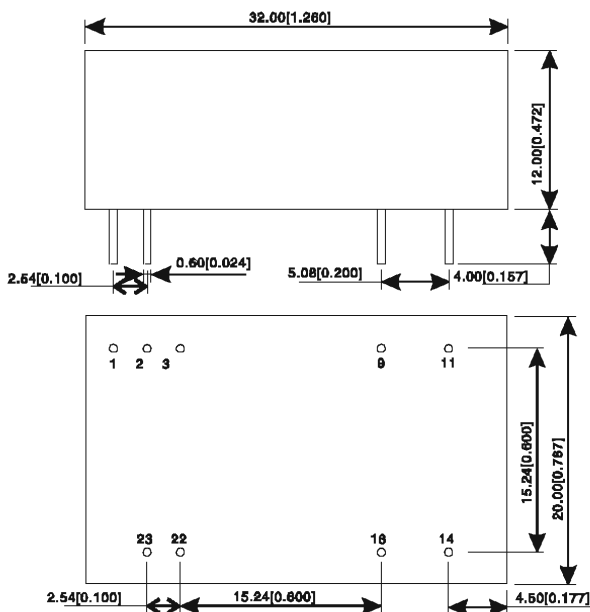


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDC03P-06805V3	5 (4.5-8)	11	5	600/30	74	4700
WDC03P-06812V3			12	250/12	77	2700
WDC03P-06815V3			15	200/10	77	2200
WDC03P-06D05V3			± 5	± 300/± 15	76	#2200
WDC03P-06D12V3			± 12	± 125/± 6	78	#1800
WDC03P-06D15V3			± 15	± 100/± 5	78	#1000
WDC03P-12805V3			12 (9-18)	20	3.3	909/46
WDC03P-12805V3	5	600/30			81	4700
WDC03P-12812V3	12	250/12			83	2700
WDC03P-12815V3	15	200/10			82	2200
WDC03P-12824V3	24	125/6			83	1800
WDC03P-12D05V3	± 5	± 300/± 15			81	#2200
WDC03P-12D09V3	± 9	± 166/± 8			84	#2000
WDC03P-12D12V3	± 12	± 125/± 6			84	#1800
WDC03P-12D15V3	± 15	± 100/± 5			85	#1000
WDC03P-24805V3	24(18-36)	40			3.3	909±46

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)		
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				
WDC03P-24805V3	24 (18-36)	40	5	600/30	81	4700		
WDC03P-24809V3			9	333/16	81	2700		
WDC03P-24812V3			12	250/12	86	2700		
WDC03P-24815V3			15	200/10	86	2200		
WDC03P-24824V3			24	125/6	85	1800		
WDC03P-24D05V3			± 5	± 300/± 15	82	#2200		
WDC03P-24D12V3			± 12	± 125/± 6	84	#1800		
WDC03P-24D15V3			± 15	± 100/± 5	84	#1000		
WDC03P-48805V3			48 (36-75)	80	3.3	909/46	78	4700
WDC03P-48805V3					5	600/30	82	4700
WDC03P-48812V3	12	250/12			86	2700		
WDC03P-48815V3	15	200/10			86	2200		
WDC03P-48D05V3	± 5	± 300/± 15			82	#2200		
WDC03P-48D12V3	± 12	± 125/± 6			84	#1800		
WDC03P-48D15V3	± 15	± 100/± 5			85	#1000		

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	NO PIN	NO PIN
2	GND	GND
3	GND	GND
9	NO PIN	COM
11	NC	-Vo
14	+Vo	+Vo
18	-Vo	COM
22	Vin	Vin
28	Vin	Vin

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ± 0.10 [± 0.004]

Unremarked tolerances: ± 0.50 [± 0.020]

3W DC-DC CONVERTER

FEATURES:

- Packaging: DIP24
- 4:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- The maximum efficiency can reach 88%
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

- Electric power
- Industrial control
- Medical

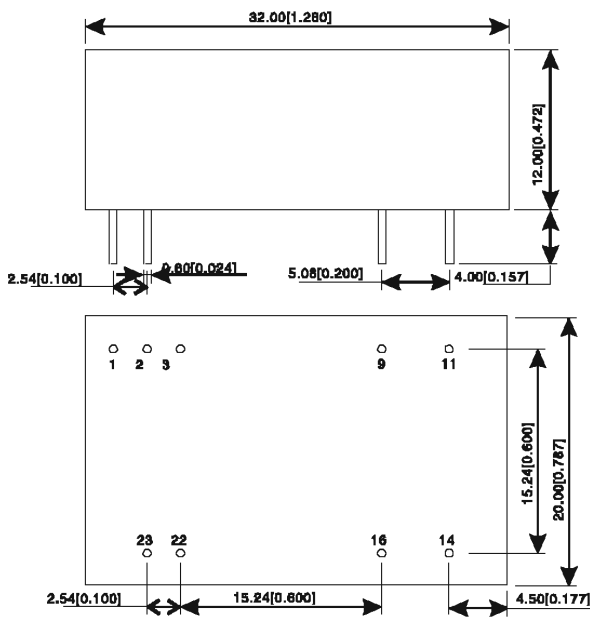


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)		
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				
WDCV03P-12803V3	12 (4.5-18)	25	3.3	909/48	73	2700		
WDCV03P-12805V3			5	800/30	47	2200		
WDCV03P-12812V3			12	250/12	78	880		
WDCV03P-12815V3			16	200/10	77	880		
WDCV03P-12824V3			24	125/8	78	470		
WDCV03P-12005V3			±5	±300/±15	78	#1000		
WDCV03P-12012V3			±12	±125/±8	78	#330		
WDCV03P-12015V3			±15	±100/±5	78	#220		
WDCV03P-24803V3			24 (9-36)	40	3.3	808/48	75	2700
WDCV03P-24805V3					5	800/30	80	2200
WDCV03P-24812V3	12	250/12			81	880		
WDCV03P-24815V3	15	200/10			82	880		

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDCV03P-24D24V3	24 (8-36)	40	24	125/8	82	470
WDCV03P-34005V3			±5	±300/±15	80	#1000
WDCV03P-24D12V3			±12	±125/±8	81	#330
WDCV03P-24D15V3			±16	±100/±5	82	#220
WDCV03P-48S03V3	48 (18-75)	80	3.3	809/48	78	2700
WDCV03P-48S05V3			5	800/30	78	2200
WDCV03P-48S12V3			12	250/12	82	880
WDCV03P-48S15V3			15	200/10	83	880
WDCV03P-48S24V3			24	125/8	81	470
WDCV03P-48D05V3			±5	±300/±15	79	#1000
WDCV03P-48D12V3			±12	±125/±8	82	#330
WDCV03P-48D15V3			±15	±100/±5	83	#220

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	NO PIN	NO PIN
2	GND	GND
3	GND	GND
8	NO PIN	COM
11	NC	-Vo
14	+Vo	+Vo
18	-Vo	COM
22	Vin	Vin
23	Vin	Vin

NC: Cannot be connected to any external circuit

Dimension: In mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

6W DC-DC CONVERTER

FEATURES:

- Packaging: DIP24
- 4:1 Wide Input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- The maximum efficiency can reach 88%
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

- Electric power
- Industrial control
- Automobile

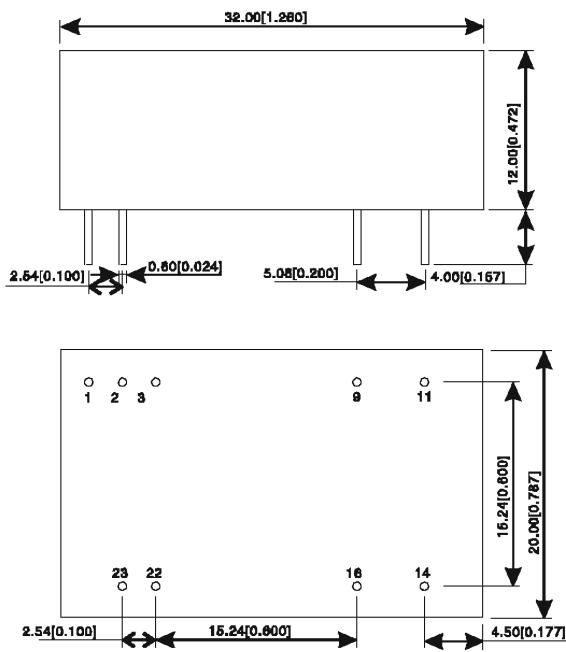


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (%Typ)	Capacitive Load,Max (uF)		
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				
WDC06P-05805V3	5 (4.6-9)	12	5	1200/0	78	1000		
WDC06P-05812V3			12	500/0	84	470		
WDC06P-05815V3			15	400/0	84	220		
WDC06P-05824V3			24	250/0	84	100		
WDC06P-05D05V4			±5	±800/0	78	#1000		
WDC06P-05D12V3			±12	±250/0	84	#470		
WDC06P-05D15V3			±15	±200/0	84	#220		
WDC06P-05D24V3			±24	±125/0	84	#100		
WDC06P-12503V3			12 (9-18)	40	3.3	1500/0	75	1800
WDC06P-12505V3					5	1200/0	80	1000
WDC06P-12512V3	12	500/0			84	470		
WDC06P-12515V3	15	400/0			85	220		
WDC06P-12524V3	24	250/0			85	100		
WDC06P-12D05V4	±5	±800/0			80	#880		
WDC06P-12D12V3	±12	±250/0			84	#330		
WDC06P-12D15V3	±15	±200/0			85	#220		
WDC06P-12D24V3	±24	±125/0			84	#100		
WDC06P-24503V3	24(18-36)	20			3.3	1500/0	78	1800

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (%Typ)	Capacitive Load,Max (uF)		
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				
WDC06P-24505V3	24 (18-36)	40	5	1200/0	82	1000		
WDC06P-24512V3			12	500/0	85	470		
WDC06P-24515V3			15	400/0	86	220		
WDC06P-24524V3			24	250/0	86	100		
WDC06P-24D05V4			±5	±800/0	83	#880		
WDC06P-24D12V3			±12	±250/0	86	#330		
WDC06P-24D15V3			±15	±200/0	87	#220		
WDC06P-24D24V3			±24	±125/0	85	#100		
WDC06P-48503V3			48 (36-75)	80	3.3	1500/0	79	1800
WDC06P-48505V3					5	1200/0	83	1000
WDC06P-48512V3	12	500/0			87	470		
WDC06P-48515V3	15	400/0			88	220		
WDC06P-48524V3	24	250/0			87	100		
WDC06P-48D05V4	±5	±800/0			83	#880		
WDC06P-48D12V3	±12	±250/0			87	#330		
WDC06P-48D15V3	±15	±200/0			85	#220		
WDC06P-48D24V3	±24	±125/0			85	#100		

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	NO PIN	NO PIN
2	GND	GND
3	GND	GND
9	NO PIN	COM
11	NC	-Vo
14	+Vo	+Vo
16	-Vo	COM
22	Vin	Vin
23	Vin	Vin

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

6W DC-DC CONVERTER

FEATURES:

- Packaging: DIP24
- 4:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- The maximum efficiency can reach 88%
- With Input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

- Electric power
- Industrial control
- Automobile

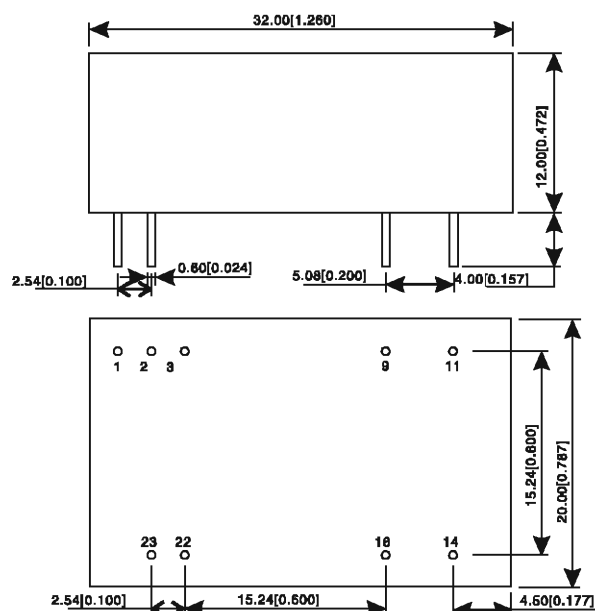


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)		
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				
WDCV08P-12S03V3	12 (4.5-18)	25	3.3	1500/0	78	1800		
WDCV08P-12S05V3			5	1200/0	82	1000		
WDCV08P-12S08V3			9	667/0	84	680		
WDCV08P-12S12V3			12	500/0	86	470		
WDCV08P-12S15V3			15	400/0	86	220		
WDCV08P-12S24V3			24	250/0	87	100		
WDCV08P-12D06V3			±5	±600/0	82	±470		
WDCV08P-12D12V3			±12	±250/0	86	±100		
WDCV08P-12D15V3			±15	±200/0	86	±100		
WDCV08P-12D24V3			±24	±125/0	86	±100		
WDCV08P-24S03V3			24 (9-36)	40	3.3	1500/0	79	1800
WDCV08P-24S05V3					5	1200/0	83	1000
WDCV08P-24S08V3	9	667/0			85	680		
WDCV08P-24S12V3	12	500/0			87	470		

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)		
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				
WDCV08P-24S15V3	24 (9-36)	40	15	400/0	87	220		
WDCV08P-24S24V3			24	250/0	88	100		
WDCV08P-24D06V3			±5	±600/0	83	±470		
WDCV08P-24D12V3			±12	±250/0	87	±100		
WDCV08P-24D15V3			±15	±200/0	87	±100		
WDCV08P-24D24V3			±24	±125/0	87	±100		
WDCV08P-48S03V3			48 (18-75)	80	3.3	1500/0	79	1800
WDCV08P-48S05V3					5	1200/0	83	1000
WDCV08P-48S12V3	12	500/0			87	470		
WDCV08P-48S15V3	15	400/0			88	220		
WDCV08P-48S24V3	24	250/0			88	100		
WDCV08P-48D06V3	±5	±600/0			83	±470		
WDCV08P-48D12V3	±12	±250/0			87	±100		
WDCV08P-48D15V3	±15	±200/0			88	±100		

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	NO PIN	NO PIN
2	GND	GND
3	GND	GND
9	NO PIN	COM
11	NC	-Vo
14	+Vo	+Vo
18	-Vo	COM
22	Vin	Vin
23	Vin	Vin

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

10W DC-DC CONVERTER

FEATURES:

- Packaging: DIP24
- 2:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- The maximum efficiency can reach 88%
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

- Electric power
- Industrial control
- Communication
- IoT
- Automobile

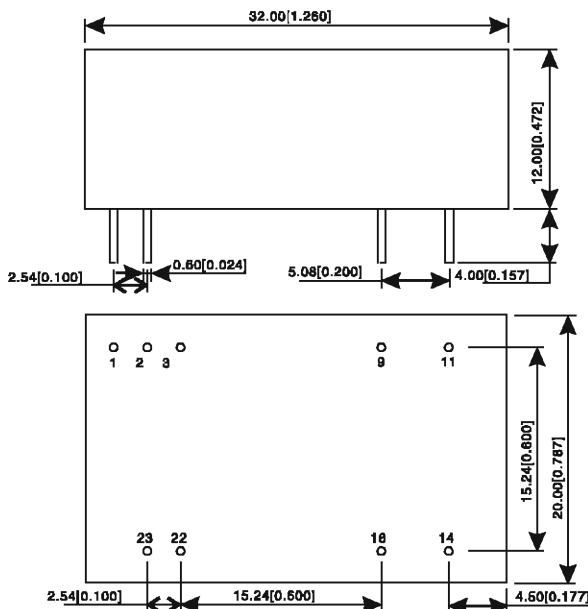


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDC10P-06S03V3	5 (4.5-9)	12	3.3	2400/0	88	1200
WDC10P-06S05V3			5	2000/0	84	1000
WDC10P-06S12V3			12	833/0	85	471
WDC10P-06S15V3			15	667/0	85	330
WDC10P-06S24V3			24	416/0	87	100
WDC10P-05D05V3			±5	±1000/0	82	#1000
WDC10P-05D12V3			±12	±416/0	86	#470
WDC10P-05D15V3			±15	±333/0	87	#330
WDC10P-12S03V3			12 (9-18)	20	3.3	2400/0
WDC10P-12S05V3	5	2000/0			87	1000
WDC10P-12S12V3	12	833/0			87	470
WDC10P-12S15V3	15	667/0			87	330
WDC10P-12S24V3	24	416/0			88	100
WDC10P-12D05V3	±5	±1000/0			88	#1000
WDC10P-12D12V3	±12	±416/0			87	#470
WDC10P-12D15V3	±15	±333/0			87	#330

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDC10P-24S03V3	24 (18-36)	40	3.3	2400/0	87	1200
WDC10P-24S05V3			5	2000/0	88	1000
WDC10P-24S12V3			12	833/0	87	470
WDC10P-24S15V3			15	667/0	87	330
WDC10P-24S24V3			24	416/0	88	100
WDC10P-24D05V3			±5	±1000/0	83	#1000
WDC10P-24D12V3			±12	±416/0	87	#470
WDC10P-24D15V3			±15	±333/0	87	#330
WDC10P-48S03V3			48 (36-75)	80	3.3	2400/0
WDC10P-48S05V3	5	2000/0			88	1000
WDC10P-48S12V3	12	833/0			87	470
WDC10P-48S15V3	15	667/0			87	330
WDC10P-48S24V3	24	416/0			88	100
WDC10P-48D05V3	±5	±1000/0			88	#1000
WDC10P-48D12V3	±12	±416/0			87	#470
WDC10P-48D15V3	±15	±333/0			87	#330

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	CTRL	CTRL
2	GND	GND
3	GND	GND
9	NO PIN	COM
11	NC	-Vo
14	+Vo	+Vo
16	-Vo	COM
22	Vin	Vin
23	Vin	Vin

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

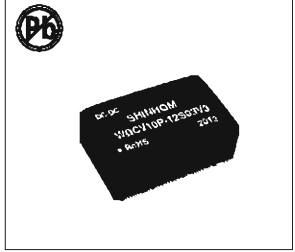
10W DC-DC CONVERTER

FEATURES:

- Packaging: DIP24
- 4:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- Isolation Voltage: 1500VDC
- The maximum efficiency can reach 88%
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

- Electric power
- Industrial control
- Communication
- IoT
- Automobile

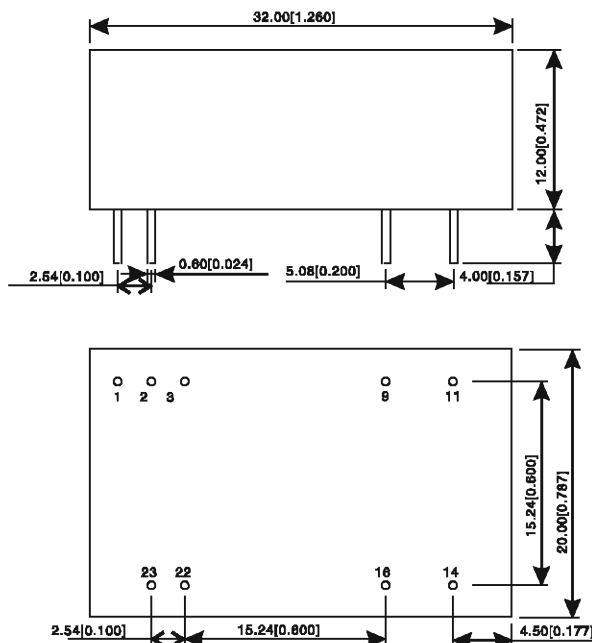


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)		
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				
WDCV10P-12S03V3	12 (4.5-18)	25	3.3	2400/0	83	1200		
WDCV10P-12S05V3			5	2000/0	84	1000		
WDCV10P-12S12V3			12	833/0	86	470		
WDCV10P-12S15V3			15	667/0	87	330		
WDCV10P-12S24V3			24	416/0	88	100		
WDCV10P-12O05V3			±5	±1000/0	83	#1000		
WDCV10P-12O12V3			±12	±416/0	86	#470		
WDCV10P-12O15V3			±15	±333/0	87	#330		
WDCV10P-24S03V3			24 (9-36)	40	3.3	2400/0	87	1200
WDCV10P-24S05V3					5	2000/0	88	1000
WDCV10P-24S12V3	12	833/0			87	470		
WDCV10P-24S15V3	15	667/0			87	330		

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDCV10P-12S03V3	24 (9-36)	40	24	416/0	88	100
WDCV10P-12S05V3			±5	±1000/0	83	#1000
WDCV10P-12S12V3			±12	±416/0	87	#470
WDCV10P-12S15V3			±15	±333/0	87	#330
WDCV10P-12S24V3	48 (18-75)	80	3.3	2400/0	88	1200
WDCV10P-12O05V3			5	2000/0	87	1000
WDCV10P-12O12V3			12	833/0	87	470
WDCV10P-12O15V3			15	667/0	87	330
WDCV10P-24S03V3			24	416/0	88	100
WDCV10P-24S05V3			±5	±1000/0	83	#1000
WDCV10P-24S12V3			±12	±416/0	87	#470
WDCV10P-24S15V3			±15	±333/0	87	#330

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	CTRL	CTRL
2	GND	GND
3	GND	GND
9	NO PIN	COM
11	NC	-Vo
14	+Vo	+Vo
18	-Vo	COM
22	VIn	VIn
23	VIn	VIn

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

6W DC-DC CONVERTER

FEATURES:

- Packaging: 1" X 1"
- 2:1 Wide Input voltage range
- Operating Temperature: -40°C – 85°C
- The maximum efficiency can reach 88%
- Isolation Voltage: 1500VDC
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

- Electric power
- Industrial control
- Communication
- Rail traffic

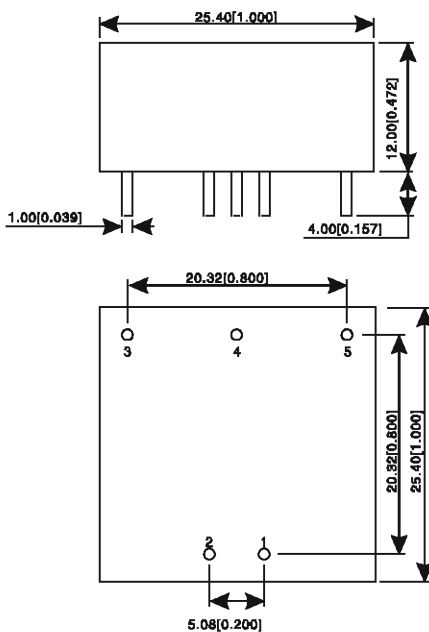


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDC08Q-05S05V3	5 (4.5-8)	12	5	1200/0	78	1000
WDC08Q-05S12V3			12	500/0	88	470
WDC08Q-06D05V3			±5	±800/0	79	#470
WDC08Q-05D12V3			±12	±250/0	83	#100
WDC08Q-06D15V3			±15	±200/0	81	#100
WDC08Q-12S05V3			12 (8-18)	20	5	1200/0
WDC08Q-12S12V3	12	500/0			85	470
WDC08Q-12D05V3	±5	±800/0			81	#470
WDC08Q-12D12V3	±12	±250/0			85	#100
WDC08Q-12D15V3	±15	±200/0			83	#100
WDC08Q-24S03V3	24 (18-36)	40			3.3	1500/0
WDC08Q-24S05V3			5	1200/0	82	1000

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)		
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				
WDC08Q-12S03V3	24 (18-36)	40	9	667/0	85	470		
WDC08Q-12S05V3			12	500/0	85	470		
WDC08Q-12S12V3			15	400/0	88	220		
WDC08Q-12S15V3			24	250/0	85	100		
WDC08Q-12S24V3			±5	±800/0	83	#470		
WDC08Q-12D05V3			±12	±250/0	87	#100		
WDC08Q-12D12V3			±15	±200/0	87	#100		
WDC08Q-12D15V3			48 (36-75)	80	3.3	1500/0	79	1800
WDC08Q-24S03V3					5	1200/0	83	1000
WDC08Q-24S05V3					12	500/0	87	470
WDC08Q-24S12V3					15	400/0	88	220
WDC08Q-24S15V3					24	250/0	88	100

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
3	+Vo	+Vo
4	NO PIN	COM
5	-Vo	-Vo

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10[±0.004]

Unremarked tolerances: ±0.50[±0.020]

6W DC-DC CONVERTER

FEATURES:

Packaging: 1" X 1"
 4:1 Wide input voltage range
 Operating Temperature: -40°C – 85°C
 The maximum efficiency can reach 88%
 Isolation Voltage: 1500VDC
 With input undervoltage, output overcurrent,
 short circuit, over voltage protection

APPLICATION:

Electric power
 Industrial control
 Communication
 Instruments & Apparatus
 Rail traffic

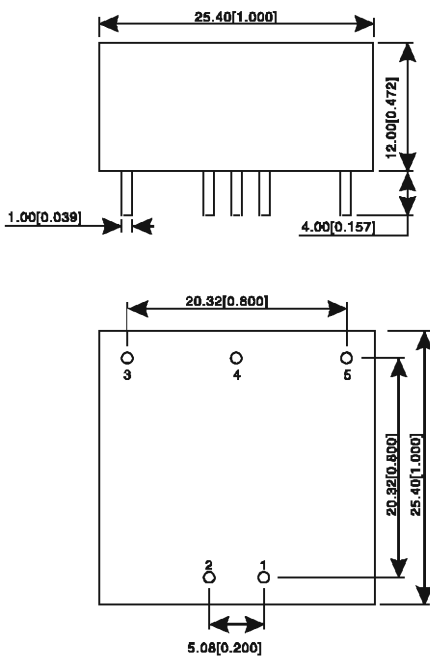


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)		
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				
WDCV08Q-12805V3	12 (4.5-18)	25	3.3	1500/0	78	1800		
WDCV08Q-12805V3			5	1200/0	82	1000		
WDCV08Q-12805V3			9	667/0	84	680		
WDCV08Q-12S12V3			12	500/0	86	470		
WDCV08Q-12S15V3			15	400/0	86	220		
WDCV08Q-12S24V3			24	250/0	87	100		
WDCV08Q-12D05V3			± 5	± 600/0	82	#470		
WDCV08Q-12D12V3			± 12	± 250/0	86	#100		
WDCV08Q-12D15V3			± 15	± 200/0	86	#100		
WDCV08Q-12D24V3			± 24	± 125/0	86	#100		
WDCV08Q-24S05V3			24 (8-36)	40	3.3	1500/0	79	1800
WDCV08Q-24S05V3					5	1200/0	83	1000
WDCV08Q-24S05V3	9	667/0			85	680		
WDCV08Q-24S12V3	12	500/0			87	470		
WDCV08Q-24S15V3	15	400/0			86	220		

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)		
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				
WDCV08Q-24S15V3	24 (8-36)	40	15	400/0	87	220		
WDCV08Q-24S24V3			24	250/0	88	100		
WDCV08Q-24D05V3			± 5	± 600/0	83	#470		
WDCV08Q-24D12V3			± 12	± 250/0	87	#100		
WDCV08Q-24D15V3			± 15	± 200/0	87	#100		
WDCV08Q-24D24V3			± 24	± 125/0	87	#100		
WDCV08Q-48S05V3			48 (18-75)	80	3.3	1500/0	79	1800
WDCV08Q-48S05V3					5	1200/0	83	1000
WDCV08Q-48S12V3					12	500/0	87	470
WDCV08Q-48S15V3					15	400/0	88	220
WDCV08Q-48S24V3					24	250/0	88	100
WDCV08Q-48D05V3					± 5	± 600/0	83	#470
WDCV08Q-48D12V3	± 12	± 250/0			87	#100		
WDCV08Q-48D15V3	± 15	± 200/0			86	#100		

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
3	+Vo	+Vo
4	NO PIN	COM
5	-Vo	-Vo

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ± 0.10 [± 0.004]

Unremarked tolerances: ± 0.50 [± 0.020]

10W DC-DC CONVERTER

FEATURES:

Packaging: 1" X 1"
 2:1 Wide input voltage range
 Operating Temperature: -40°C – 85°C
 The maximum efficiency can reach 88%
 Isolation Voltage: 1500VDC
 With input undervoltage, output overcurrent,
 short circuit, over voltage protection

APPLICATION:

Electric power
 Industrial control
 Communication
 Instruments & Apparatus
 Rail traffic

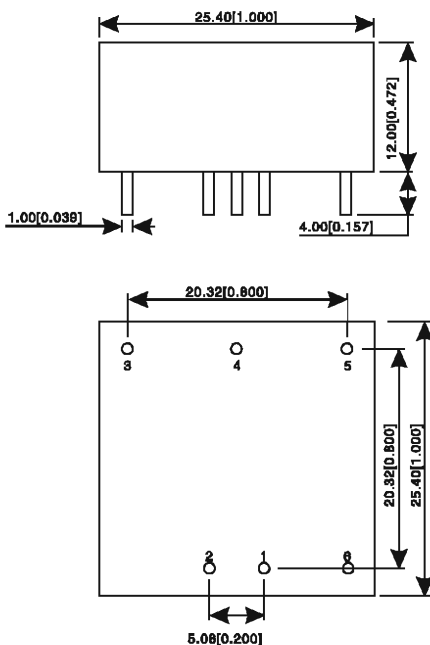


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDC10Q-05S05V3	5 (4.5-8)	12	5	2000/0	85	470
WDC10Q-05S12V3			12	834/0	83	470
WDC10Q-05S15V3			15	667/0	84	330
WDC10Q-05S24V3			24	417/0	83	100
WDC10Q-05D05V3			±5	±1000/0	78	#1000
WDC10Q-05D12V3			±12	±417/0	83	#470
WDC10Q-05D15V3			±15	±334/0	84	#330
WDC10Q-05D24V3			±24	±208/0	83	#100
WDC10Q-12S05V3			12(8-18)	20	5	2000/0

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDC10Q-24S05V3	24 (18-36)	40	5	2000/0	83	2200
WDC10Q-24S12V3			12	834/0	87	470
WDC10Q-24S15V3			15	667/0	88	330
WDC10Q-24S24V3			24	417/0	88	100
WDC10Q-48S05V3	48 (36-75)	80	3.3	2400/0	79	2200
WDC10Q-48S05V3			5	2000/0	83	2200
WDC10Q-48S12V3			12	833/0	87	470
WDC10Q-48S15V3			15	667/0	87	330
WDC10Q-48S24V3			24	416/0	88	100

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
3	+Vo	+Vo
4	NO PIN	COM
5	-Vo	-Vo
6	Ctrl	Ctrl

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

10W DC-DC CONVERTER

FEATURES:

- Packaging: 1" X 1"
- 4:1 Wide input voltage range
- Operating Temperature: -40°C - 85°C
- The maximum efficiency can reach 88%
- Isolation Voltage: 1500VDC
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

- Electric power
- Industrial control
- Communication
- Instruments & Apparatus
- Rail traffic

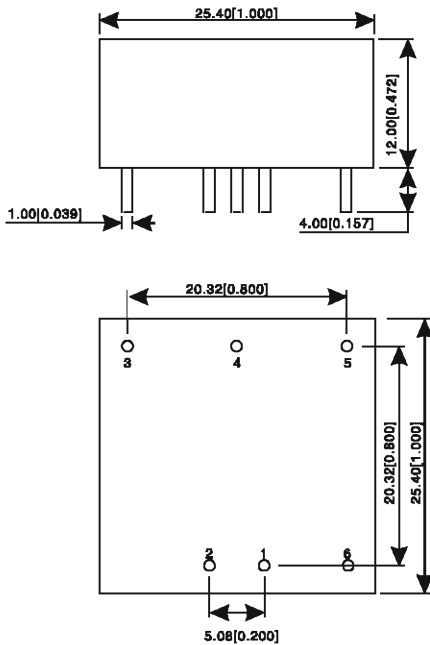


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load,Max (uF)		
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				
WDCV10Q-12S08V3	12 (4.5-18)	25	3.3	2400/0	77	2200		
WDCV10Q-12S05V3			5	2000/0	82	2200		
WDCV10Q-12S00V3			9	1111/0	84	680		
WDCV10Q-12S12V3			12	833/0	85	470		
WDCV10Q-12S15V3			15	667/0	85	330		
WDCV10Q-12S24V3			24	416/0	87	100		
WDCV10Q-12D05V3			±5	±1000/0	82	#1000		
WDCV10Q-12D00V3			±9	±555/0	85	#680		
WDCV10Q-12D12V3			±12	±416/0	86	#470		
WDCV10Q-12D15V3			±15	±333/0	86	#330		
WDCV10Q-12D24V3			±24	±208/0	86	#100		
WDCV10Q-24S08V3			24 (9-36)	40	3.3	2400/0	78	2200
WDCV10Q-24S05V3					5	2000/0	83	2200
WDCV10Q-24S00V3					9	1111/0	85	680
WDCV10Q-24S12V3	12	833/0			86	470		
WDCV10Q-24S15V3	15	667/0			86	330		

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load,Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDCV10Q-24S24V3	24 (9-36)	40	24	416/0	88	100
WDCV10Q-24D05V3			±5	±1000/0	83	#1000
WDCV10Q-24D00V3			±9	±555/0	86	#680
WDCV10Q-24D12V3			±12	±416/0	87	#470
WDCV10Q-24D15V3			±15	±333/0	87	#330
WDCV10Q-24D24V3			±24	±208/0	87	#100
WDCV10Q-48S08V3	48 (18-75)	80	3.3	2400/0	79	2200
WDCV10Q-48S05V3			5	2000/0	83	2200
WDCV10Q-48S12V3			12	833/0	87	470
WDCV10Q-48S15V3			15	667/0	87	330
WDCV10Q-48S24V3			24	416/0	88	100
WDCV10Q-48D05V3			±5	±1000/0	83	#1000
WDCV10Q-48D12V3			±12	±416/0	87	#470
WDCV10Q-48D15V3			±15	±333/0	87	#330
WDCV10Q-48D24V3	±24	±208/0	87	#100		

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	VIn	VIn
3	+Vo	+Vo
4	NO PIN	COM
5	-Vo	-Vo
6	Ctrl	Ctrl

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

15W DC-DC CONVERTER

FEATURES:

Packaging: 1" X 1"
 2:1 Wide input voltage range
 Operating Temperature: -40°C – 85°C
 The maximum efficiency can reach 91%
 Isolation Voltage: 1500VDC
 With input undervoltage, output overcurrent,
 short circuit, over voltage protection

APPLICATION:

Electric power
 Industrial control
 Communication
 Instruments & Apparatus
 Rail traffic

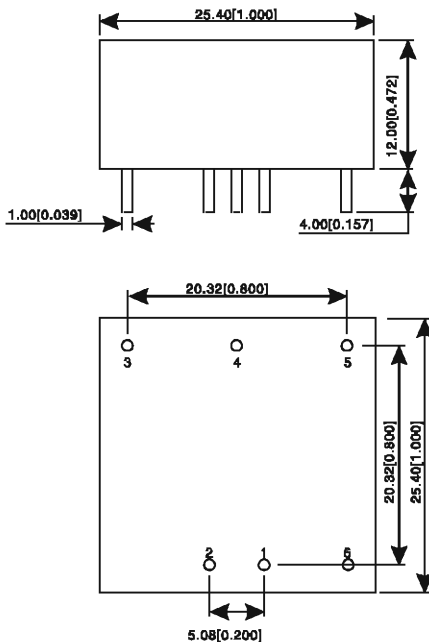


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDC15Q-12803V3	12 (9-18)	20	3.3	4000/0	88	4700
WDC15Q-12805V3			5	3000/0	90	4700
WDC15Q-12812V3			12	1250/0	90	1000
WDC15Q-12815V3			15	1000/0	91	820
WDC15Q-12824V3			24	825/0	91	270
WDC15Q-24803V3			24 (18-36)	40	3.3	4000/0
WDC15Q-24805V3	5	3000/0			90	4700
WDC15Q-24812V3	12	1250/0			90	1000

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDC15Q-4815V3	12 (18-36)	40	15	1000/0	91	820
WDC15Q-4824V3			24	825/0	91	270
WDC15Q-4830V3	48 (36-75)	80	3.3	4000/0	88	4700
WDC15Q-4805V3			5	3000/0	90	4700
WDC15Q-4812V3			12	1250/0	91	1000
WDC15Q-4815V3			15	1000/0	91	820
WDC15Q-4824V3			24	825/0	91	270
WDC15Q-48812V3			12	1250/0	90	1000

PHYSICAL CHARACTERISTICS:



Pin	Single output
1	GND
2	Vin
3	+Vo
4	Trim
5	-Vo
6	Ctrl

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ±0.10[±0.004]

Unremarked tolerances: ±0.50[±0.020]

15W DC-DC CONVERTER

FEATURES:

Packaging: 1" X 1"
 4:1 Wide input voltage range
 Operating Temperature: -40°C – 85°C
 The maximum efficiency can reach 91%
 Isolation Voltage: 1500VDC
 With input undervoltage, output overcurrent,
 short circuit, over voltage protection

APPLICATION:

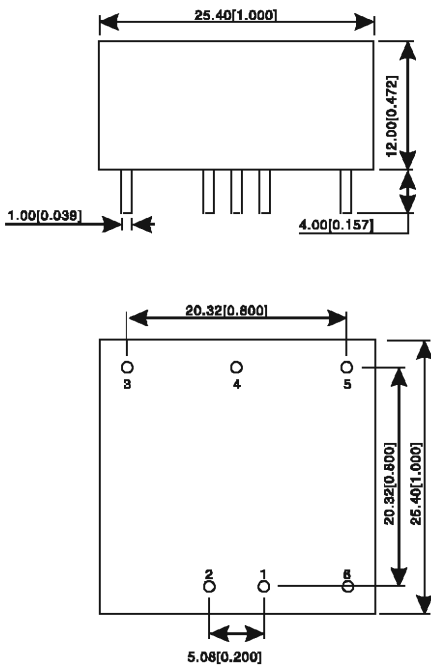
Electric power
 Industrial control
 Communication
 Instruments & Apparatus
 Rail traffic



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)	Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load, Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDCV15Q-24803V3	24 (9-36)	40	3.3	4000/0	88	4700	WDCV15Q-48803V3	48 (18-75)	80	3.3	4000/0	88	4700
WDCV15Q-24805V3			5	3000/0	90	4700	WDCV15Q-48805V3			5	3000/0	90	4700
WDCV15Q-24812V3			12	1250/0	90	1000	WDCV15Q-48812V3			12	1250/0	91	1000
WDCV15Q-24815V3			15	1000/0	91	820	WDCV15Q-48815V3			15	1000/0	91	820
WDCV15Q-24824V3			24	625/0	91	270	WDCV15Q-48824V3			24	625/0	91	270
WDCV15Q-24D05V3			±5	±1500/0	87	#1500	WDCV15Q-48D05V3			±5	±1500/0	86	#1500
WDCV15Q-24D12V3			±12	±625/0	90	#470	WDCV15Q-48D12V3			±12	±625/0	89	#470
WDCV15Q-24D15V3			±15	±500/0	90	#330	WDCV15Q-48D15V3			±15	±500/0	89	#330
WDCV15Q-24D24V3			±24	±312/0	89	#200	WDCV15Q-48D24V3			±24	±312/0	90	#200

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
3	+Vo	+Vo
4	NO PIN	COM
5	-Vo	-Vo
6	Ctrl	Ctrl

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerance: ±0.50 [±0.020]

20W DC-DC CONVERTER

FEATURES:

Packaging: 1" X 1"
 2:1 Wide input voltage range
 Operating Temperature: -40°C – 85°C
 The maximum efficiency can reach 90%
 Isolation Voltage: 1500VDC
 With input undervoltage, output overcurrent,
 short circuit, over voltage protection

APPLICATION:

Electric power
 Industrial control
 Communication
 Instruments & Apparatus
 Rail traffic

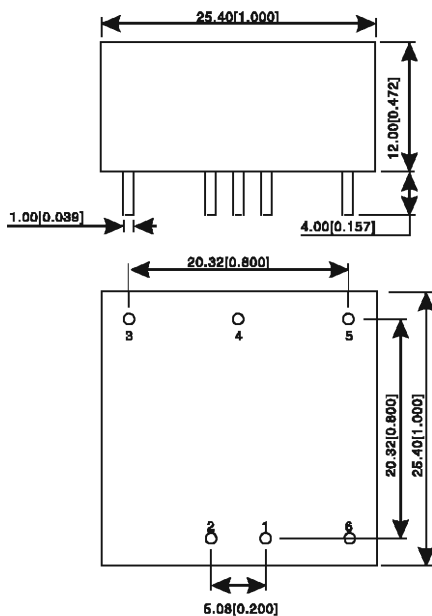


ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load,Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDC20Q-12D15	12 (9-18)	20	±15	±667/0	87	#625
WDC20Q-12D24			±24	±417/0	88	#220
WDC20Q-12S03	24 (18-36)	40	3.3	5000/0	86	10000
WDC20Q-12S05			5	4000/0	90	10000
WDC20Q-12S09			9	2222/0	87	4700
WDC20Q-12S12			12	1667/0	87	1600
WDC20Q-12S15			15	1333/0	88	1000
WDC20Q-12S24			24	834/0	86	500
WDC20Q-12D05			±5	±2000/0	84	#4800
WDC20Q-12D09			±9	±1111/0	86	#1000
WDC20Q-12D12			±12	±834/0	86	#800

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load,Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDC20Q-24D15	24 (18-36)	40	±15	±667/0	86	#625
WDC20Q-24D24			±24	±417/0	86	#500
WDC20Q-48S03	48 (36-75)	80	3.3	5000/0	86	10000
WDC20Q-48S05			5	4000/0	90	10000
WDC20Q-48S09			9	2222/0	89	4700
WDC20Q-48S12			12	1667/0	89	1600
WDC20Q-48S15			15	1333/0	90	1000
WDC20Q-48S24			24	834/0	90	500
WDC20Q-48D05			±5	±2000/0	86	#4800
WDC20Q-48D12			±12	±834/0	86	#800
WDC20Q-48D15			±15	±667/0	89	#625

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
3	+Vo	+Vo
4	Trim	Com
5	-Vo	-Vo
6	Ctrl	Ctrl

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]

20W DC-DC CONVERTER

FEATURES:

- Packaging: 1" X 1"
- 4:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- The maximum efficiency can reach 90%
- Isolation Voltage: 1500VDC
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

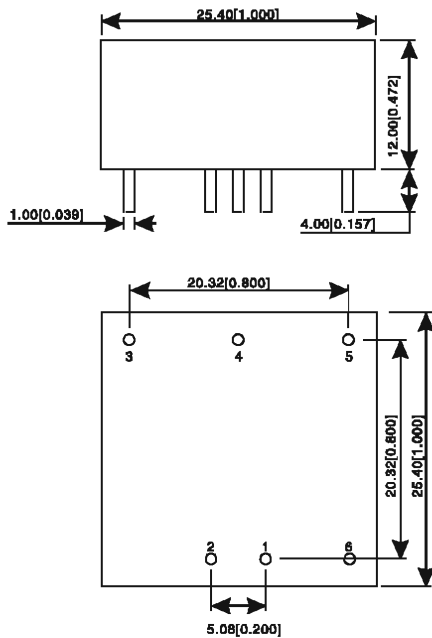
- Electric power
- Industrial control
- Communication
- Instruments & Apparatus
- Rail traffic



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (%Typ)	Capacitive Load,Max (uF)	Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (%Typ)	Capacitive Load,Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDCV20Q-24S03	24 (9-36)	40	3.3	5000/0	86	10000	WDCV20Q-48S03	48 (18-75)	80	3.3	5000/0	86	10000
WDCV20Q-24S05			5	4000/0	88	10000	WDCV20Q-48S05			5	4000/0	88	10000
WDCV20Q-24S09			9	2222/0	89	4700	WDCV20Q-48S09			9	2222/0	89	4700
WDCV20Q-24S12			12	1667/0	89	1600	WDCV20Q-48S12			12	1667/0	87	1600
WDCV20Q-24S15			15	1333/0	90	1000	WDCV20Q-48S15			15	1333/0	90	1000
WDCV20Q-24S24			24	834/0	90	500	WDCV20Q-48S24			24	834/0	88	500
WDCV20Q-24D05			±5	±2000/0	86	#4800	WDCV20Q-48D05			±5	±2000/0	88	#4800
WDCV20Q-24D09			±9	±1111/0	88	#1000	WDCV20Q-48D12			±12	±834/0	88	#800
WDCV20Q-24D12			±12	±834/0	88	#800	WDCV20Q-48D15			±15	±667/0	89	#825
WDCV20Q-24D15			±15	±667/0	88	#825							

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	GND	GND
2	Vin	Vin
3	+Vo	+Vo
4	Trim	Com
5	-Vo	-Vo
6	Ctrl	Ctrl

NC: Cannot be connected to any external circuit

Dimensions: in mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.60 [±0.020]

30~40W DC-DC CONVERTER



FEATURES:

- Packaging: 2" X 1"
- 4:1 Wide input voltage range
- Operating Temperature: -40°C – 85°C
- The maximum efficiency can reach 90%
- Isolation Voltage: 1500VDC
- With input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

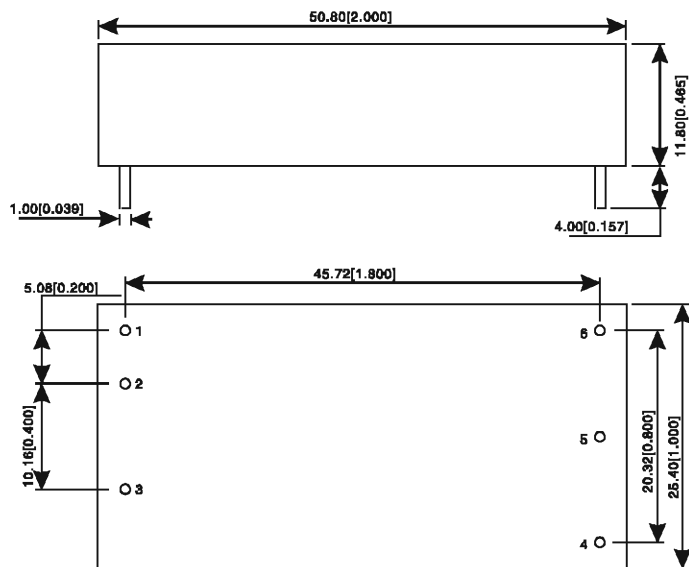
- Electric power
- Industrial control
- Communication
- Instruments & Apparatus
- Rail traffic

ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDC30R-24S03	24 (18-36)	40	3.3	6000/0	85	10000
WDC30R-24S05			5	6000/0	88	10000
WDC30R-24S08			9	3333/0	86	4700
WDC30R-24S12			12	2500/0	88	2700
WDC30R-24S15			15	2000/0	90	1680
WDC30R-24S24			24	1250/0	90	680
WDC30R-48S03	48 (36-75)	80	3.3	6000/0	86	10000
WDC30R-48S05			5	6000/0	88	10000
WDC30R-48S12			12	2500/0	86	2700
WDC30R-48S15			15	2000/0	89	1680
WDC30R-48S24			24	1250/0	89	680

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (% Typ)	Capacitive Load Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDC40R-24S05	24 (18-36)	40	5	8000/0	88	10000
WDC40R-24S12			12	3333/0	90	2700
WDC40R-24S15			15	2667/0	91	1680
WDC40R-24S24			24	1667/0	91	680
WDC40R-48S12	48 (36-75)	80	12	3333/0	90	2700
WDC40R-48S15			15	2667/0	91	1680
WDC40R-48S24			24	1667/0	91	680

PHYSICAL CHARACTERISTICS:



Pin	Single output
1	Vin
2	GND
3	CTRL
4	Trim
5	-Vo
6	+Vo

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ± 0.10 [± 0.004]

Unremarked tolerances: ± 0.50 [± 0.020]

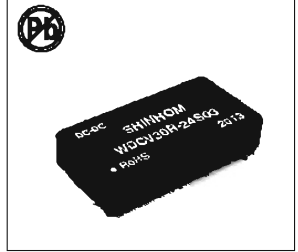
30W DC-DC CONVERTER

FEATURES:

- Packaging: 2" X 1"
- 4:1 Wide Input voltage range
- Operating Temperature: -40°C – 85°C
- The maximum efficiency can reach 90%
- Isolation Voltage: 1500VDC
- With Input undervoltage, output overcurrent, short circuit, over voltage protection

APPLICATION:

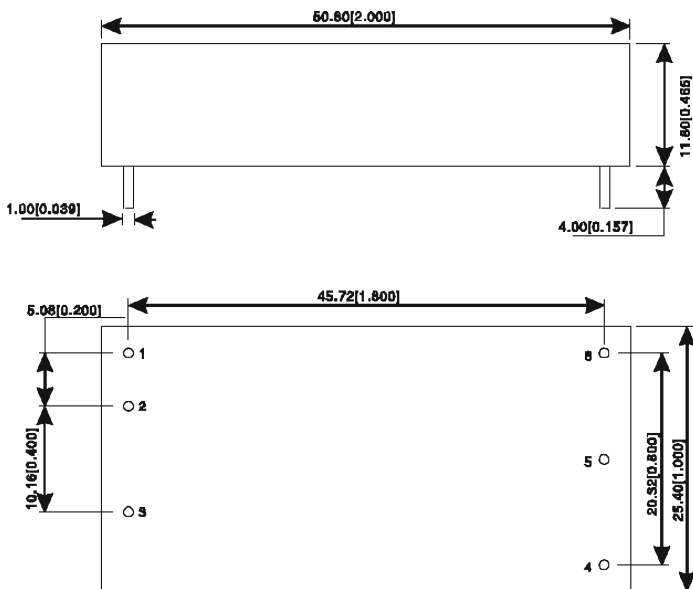
- Electric power
- Industrial control
- Communication
- Instruments & Apparatus
- Rail traffic



ELECTRICAL CHARACTERISTICS:

Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (%Typ)	Capacitive Load_Max (uF)	Part Number	Input Voltage(VDC)		Output		Full Load Efficiency (%Typ)	Capacitive Load_Max (uF)
	Rating	Max	Voltage (VDC)	Current Max/Min(mA)				Rating	Max	Voltage (VDC)	Current Max/Min(mA)		
WDCV30R-24S03	24 (9-36)	40	3.3	8000/0	85	10000	WDCV30R-24D24	24 (9-36)	40	±24	±825/0	89	470
WDCV30R-24S05			5	8000/0	89	10000	WDCV30R-48S03			48 (18-75)	80	3.3	8000/0
WDCV30R-24S09			9	3935/0	88	4700	WDCV30R-48S05	5	8000/0			87	10000
WDCV30R-24S12			12	2500/0	90	2700	WDCV30R-48S12	12	2500/0			88	2700
WDCV30R-24S15			15	2000/0	90	1880	WDCV30R-48S15	16	2000/0			89	1880
WDCV30R-24S24			24	1250/0	90	880	WDCV30R-48D24	24	1250/0			87	880
WDCV30R-24D05			±5	±3000/0	86	#2000	WDCV30R-48D05	±5	±3000/0			86	#2000
WDCV30R-24D12			±12	±1250/0	89	#1250	WDCV30R-48D12	±12	±1250/0			89	#1250
WDCV30R-24D15			±15	±1000/0	89	#880	WDCV30R-48D15	±15	±1000/0			89	#880

PHYSICAL CHARACTERISTICS:



Pin	Single output	Dual output
1	Vin	Vin
2	GND	GND
3	CTRL	CTRL
4	Trim	-Vo
5	-Vo	COM
6	+Vo	+Vo

NC: Cannot be connected to any external circuit

Dimensions: In mm

Terminal diameter tolerance: ±0.10 [±0.004]

Unremarked tolerances: ±0.50 [±0.020]