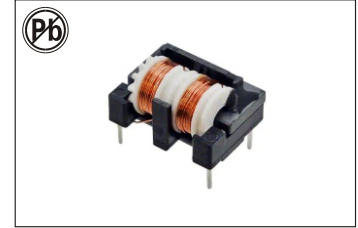


COMMON MODE CHOKE

UT1609 SERIES



FEATURES:

- 17.0X13.0mm Max.(LXW), 9.5mm Max. Height.
- Inductance range: 0.47mH~10mH
- Rated current range: 0.2~1.10A
- Small size and large inductance type.
- Excellent attenuation characteristics in low frequency.
- RoHS Compliance

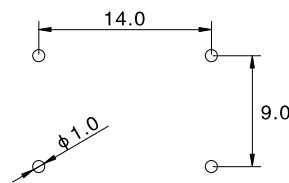
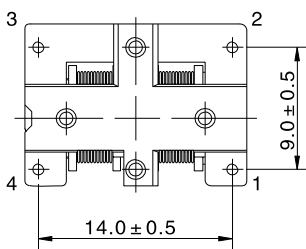
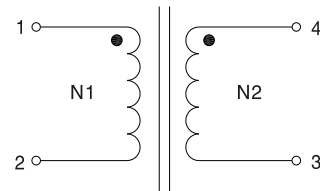
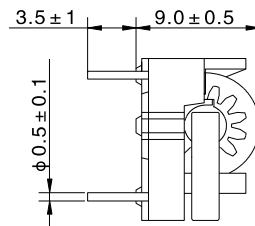
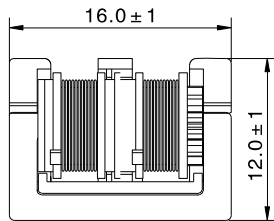
APPLICATIONS:

- DC/DC, AC/DC line noise suppression
- Communication System
- Automotive Systems
- LCD/PDP Televisions
- VCR,AV,OA equipment.

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH) Min 1KHz	Leakage Inductance (uH) Max 100KHz	DCR (Ω) Max @20℃	Rated current (A) 50/60Hz
UT1609-471Y-1.1A	0.47	50	0.15	1.1
UT1609-681Y-0.85A	0.68	50	0.25	0.85
UT1609-102Y-0.65A	1.0	150	0.35	0.65
UT1609-222Y-0.45A	2.2	150	0.7	0.45
UT1609-392Y-0.36A	3.9	200	1.2	0.36
UT1609-472Y-0.34A	4.7	300	1.6	0.34
UT1609-682Y-0.25A	6.8	400	2.5	0.25
UT1609-103Y-0.2A	10.0	550	4.0	0.2

PHYSICAL CHARACTERISTICS:



Recommended land pattern

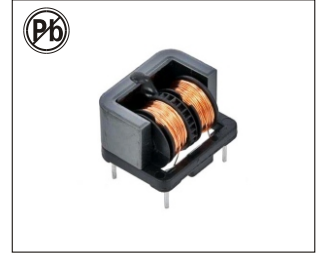
Bottom view

TECHNICAL INFORMATION:

1. Rated current: The AC current at which the temperature rise is $\Delta T=45^{\circ}\text{C}(T_a=20^{\circ}\text{C})$
2. Please give sufficient consideration to the thick wire used when producing the P.C.B.(mounting holes $\phi 1.0\text{mm}$)
3. Storage temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$.
4. Operating temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (Including coil's self temperature rise)
5. Max operating voltage:250V
6. Marking: Part number and date code
7. Resistance to soldering heat 260°C for 10 seconds
8. All specifications subject to change without notice.

AC LINE FILTERS,COMMON MODE COILS

UT1711 SERIES



FEATURES:

- Ferrite material
- High permeability
- High impedance in wide frequency range due to divided bobbin
- Small gear common mode choke for low current applications
- 11mm height low profile
- Operating temperature range from -25°C to +120°C
- UL 94V-0 flame retardant rated base and bobbin

APPLICATIONS:

- Audio-visual equipment
- Office automation equipment
- Digital appliances
- Compact power supplies

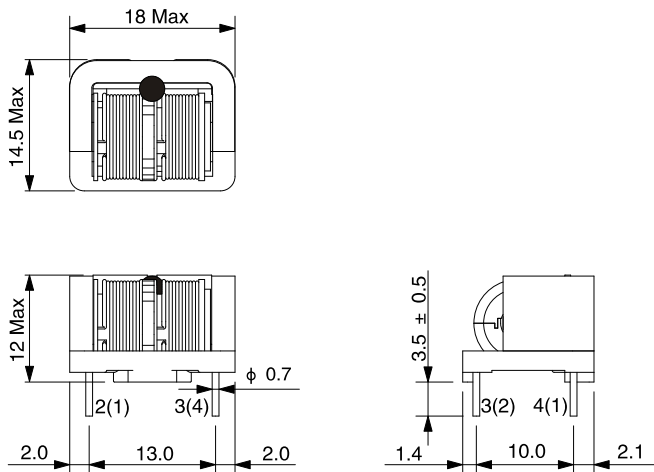
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH)Min	Rated current (A)	DCR Max. (Ω)	Temperature rise (°C)Max
UT1711-162Y	1.6	2.0	0.09	55
UT1711-292Y	2.9	1.7	0.12	55
UT1711-432Y	4.3	1.5	0.14	55
UT1711-642Y	6.4	1.3	0.21	55
UT1711-812Y	8.1	1.1	0.27	55
UT1711-103Y	10.8	1.0	0.36	55
UT1711-163Y	16.9	0.8	0.56	55
UT1711-193Y	19.6	0.7	0.71	55
UT1711-233Y	23.7	0.6	0.78	55
UT1711-403Y	40.8	0.5	1.36	55
UT1711-593Y	59.6	0.4	2.02	55
UT1711-114Y	115.7	0.3	3.57	55

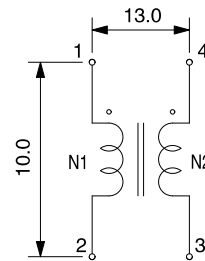
- Rated Voltage: 250 VAC
- Withstanding Voltage: 2400 VAC (2 seconds, between lines)
- Insulation Resistance: > 100 MΩ at 500 VDC (between lines)
- Inductance Measurement Condition: 10 kHz
- Thermal Class: E (120°C)
- Operating Temperature Range: -25°C to +120°C (include self temperature rise)

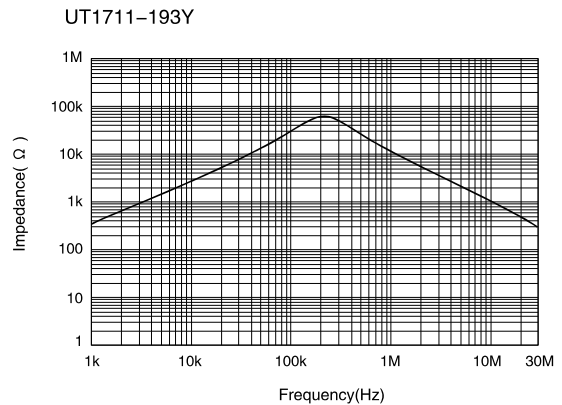
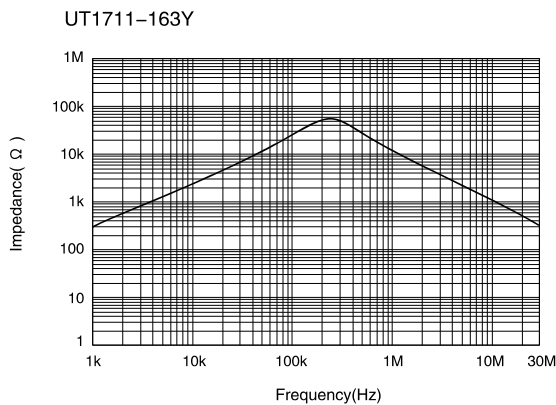
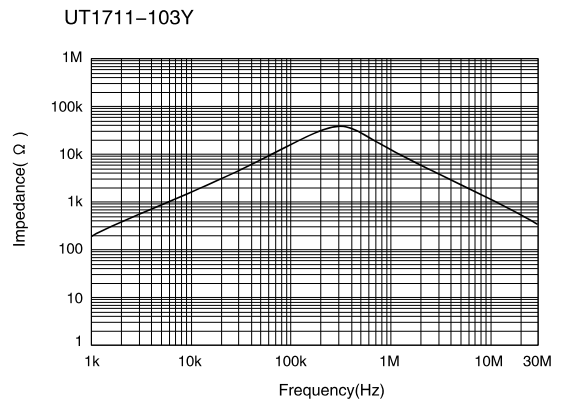
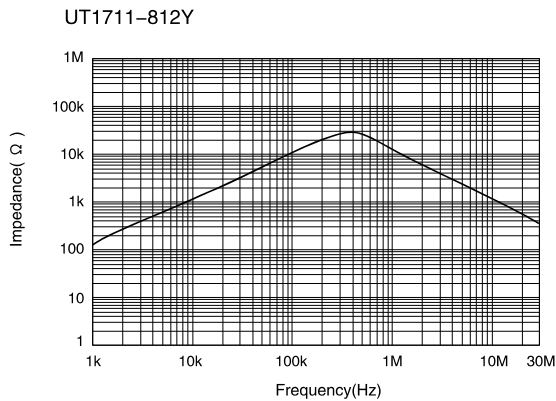
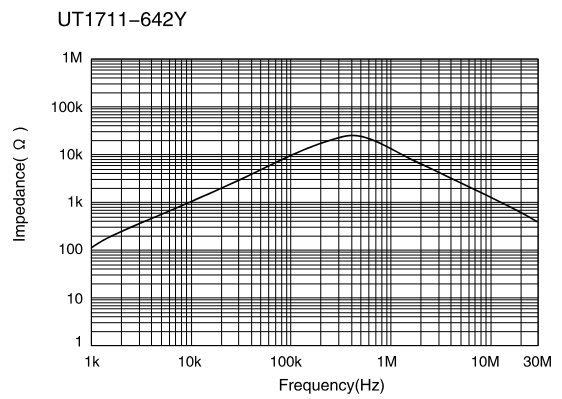
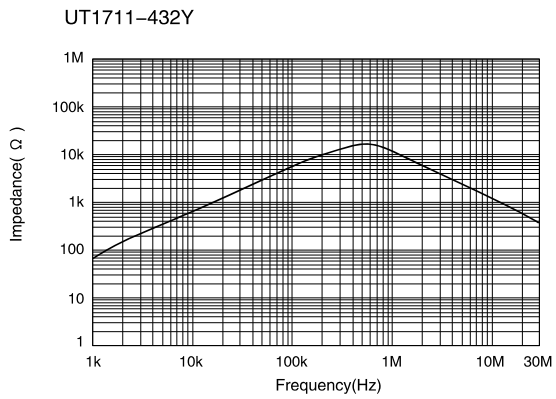
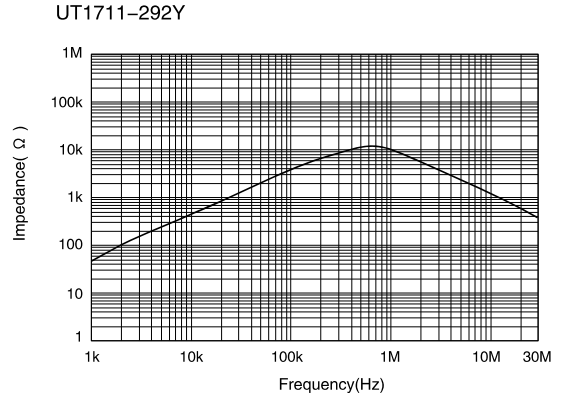
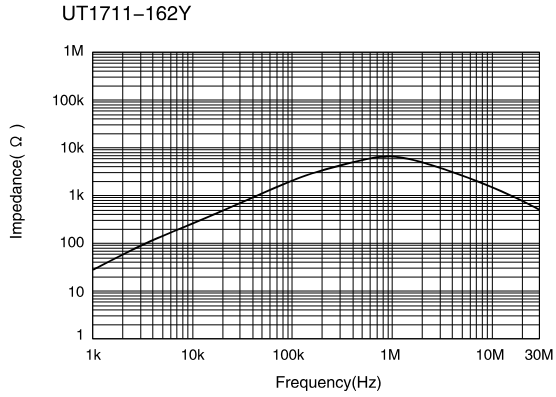
TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimensions(mm)

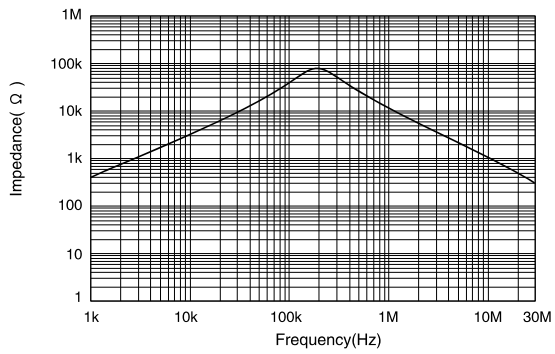


Winding

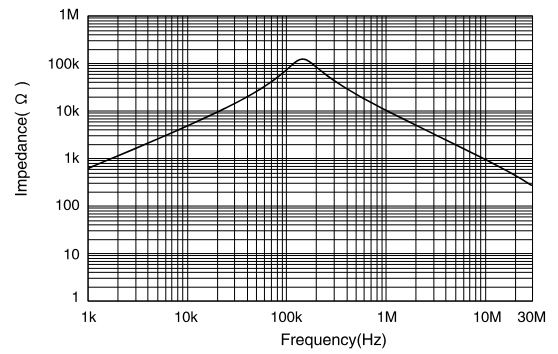




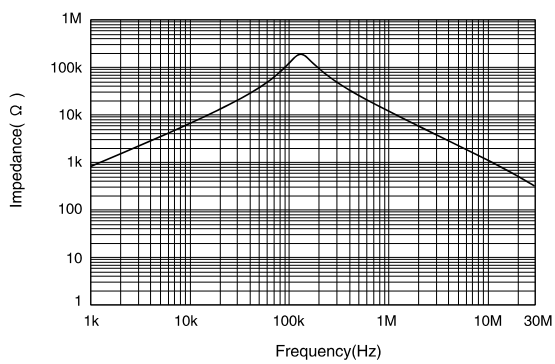
UT1711-233Y



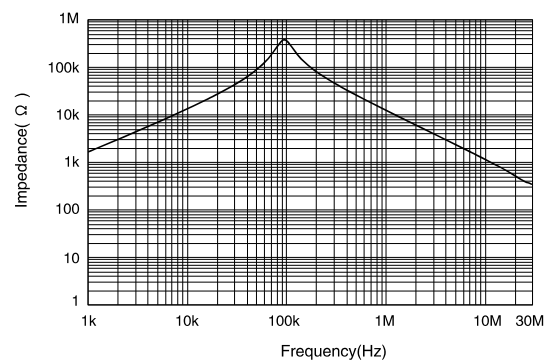
UT1711-403Y



UT1711-593Y

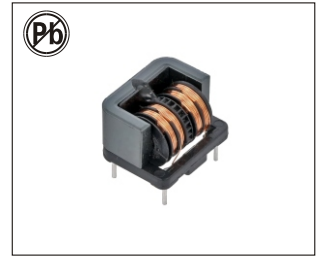


UT1711-114Y



AC LINE FILTERS,COMMON MODE COILS

UT1711A SERIES



FEATURES:

- Ferrite material
- High permeability
- High impedance in wide frequency range due to divided bobbin
- Small gear common mode choke for low current applications
- 11mm height low profile
- Operating temperature range from -25°C to +120°C
- UL 94V-0 flame retardant rated base and bobbin

APPLICATIONS:

- Audio-visual equipment
- Office automation equipment
- Digital appliances
- Compact power supplies

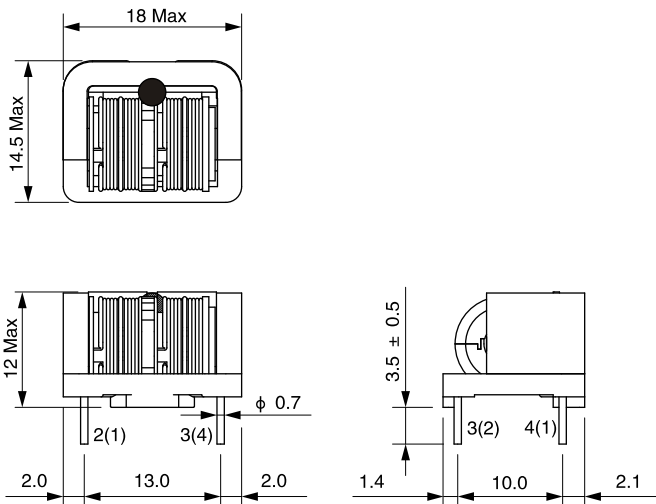
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance (mH)Min	Rated current (A)	DCR Max. (Ω)	Temperature rise (°C)Max
UT1711A-132Y	1.3	2.0	0.08	50
UT1711A-232Y	2.3	1.7	0.1	50
UT1711A-362Y	3.6	1.5	0.13	50
UT1711A-462Y	4.6	1.3	0.18	50
UT1711A-642Y	6.4	1.1	0.24	50
UT1711A-842Y	8.4	1.0	0.32	50
UT1711A-133Y	13.4	0.8	0.5	50
UT1711A-153Y	15.4	0.7	0.63	50
UT1711A-183Y	18.5	0.6	0.69	50
UT1711A-323Y	32.4	0.5	1.21	50
UT1711A-463Y	46.7	0.4	1.79	50
UT1711A-923Y	92.5	0.3	3.18	50

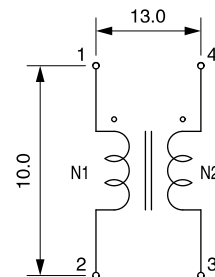
- Rated Voltage: 250 VAC
- Withstanding Voltage: 2400 VAC (2 seconds, between lines)
- Insulation Resistance: > 100 MΩ at 500 VDC (between lines)
- Inductance Measurement Condition: 10 kHz
- Thermal Class: E (120°C)
- Operating Temperature Range: -25°C to +120°C (include self temperature rise)

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

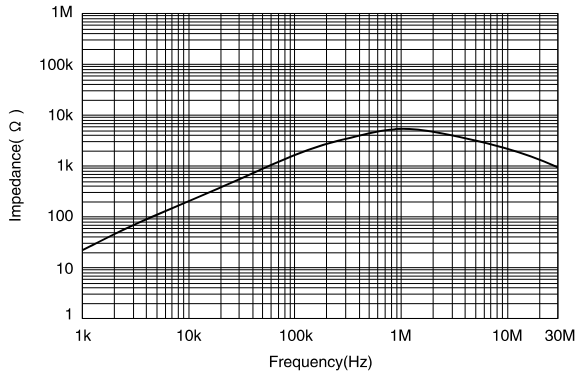
Dimensions(mm)



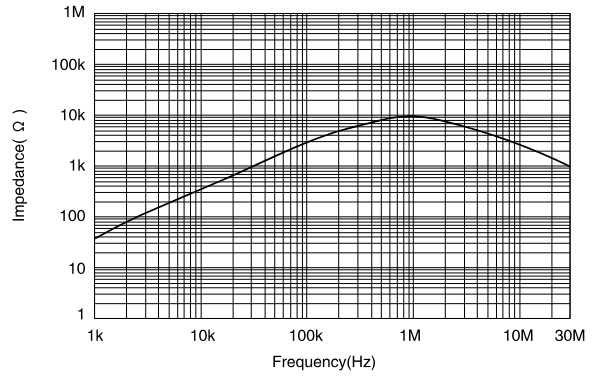
Winding



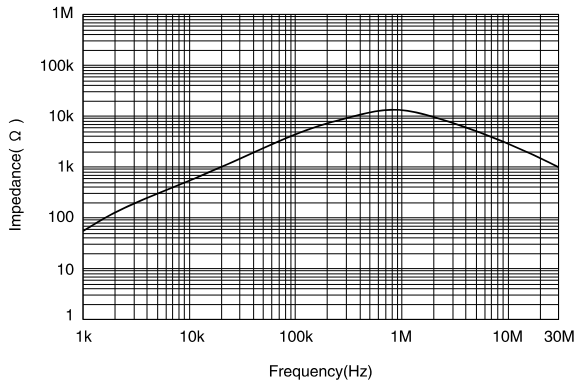
UT1711A-132Y



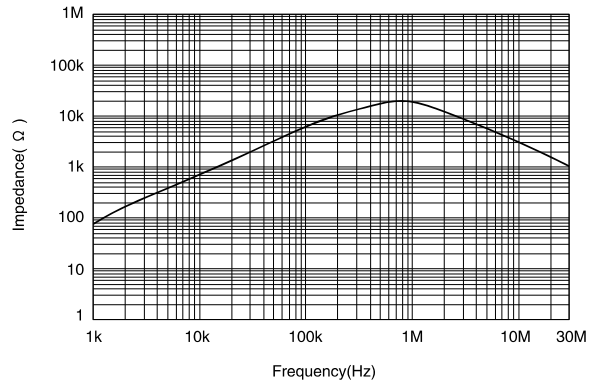
UT1711A-232Y



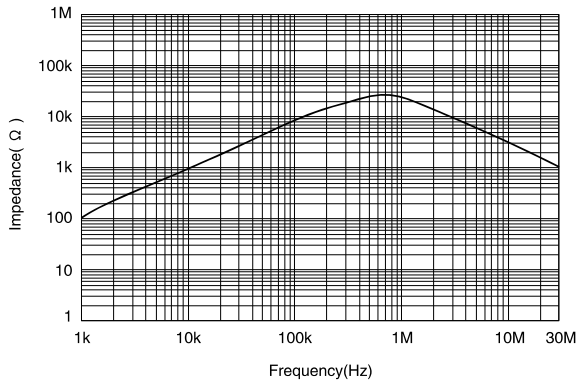
UT1711A-362Y



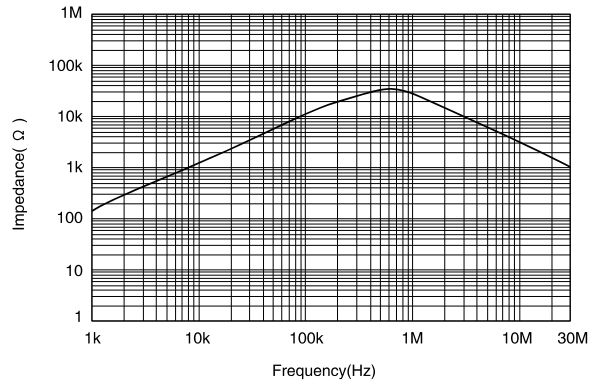
UT1711A-462Y



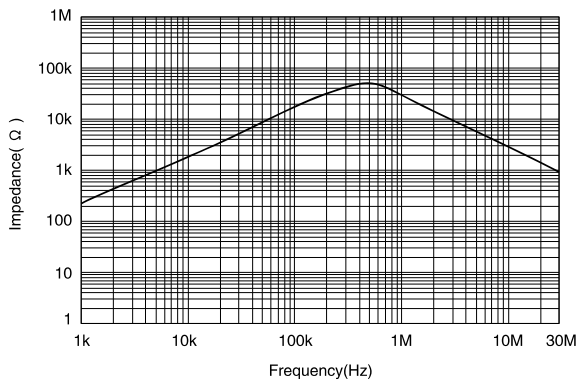
UT1711A-642Y



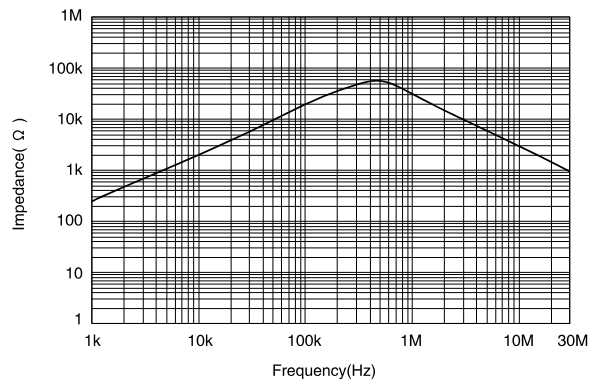
UT1711A-842Y



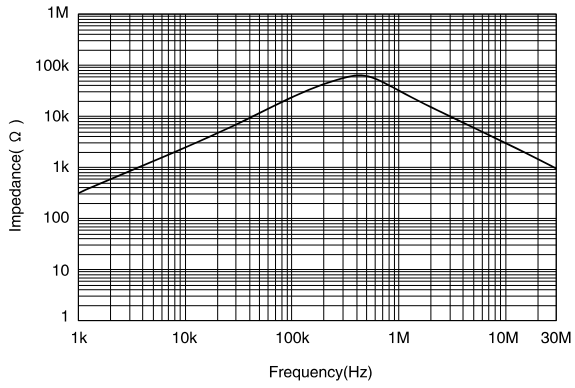
UT1711A-133Y



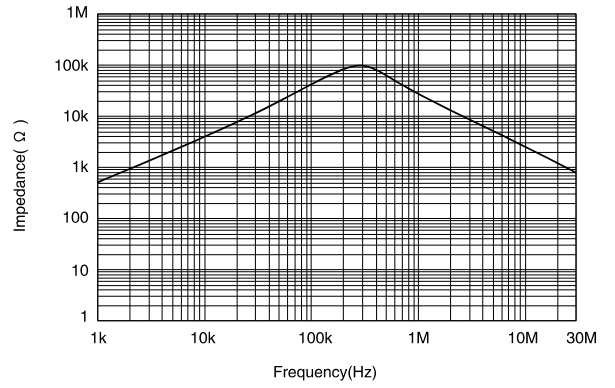
UT1711A-153Y



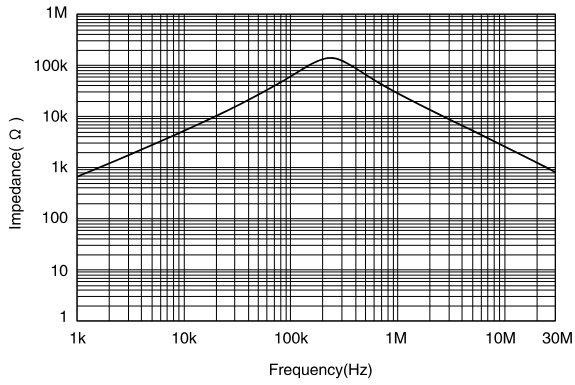
UT1711A-183Y



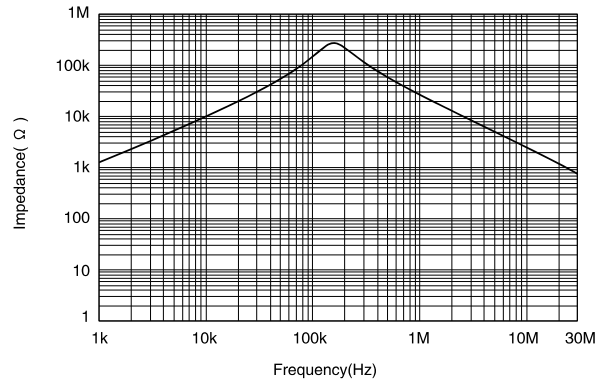
UT1711A-323Y



UT1711A-463Y

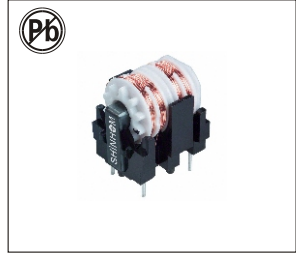


UT1711A-923Y



COMMON MODE POWER LINE CHOKE

UT2024 SERIES



FEATURES:

- Closed rectangular ferrite core
- 2 section winding for excellent high frequency performance
- 1% stray inductance for symmetrical interference suppression

APPLICATIONS:

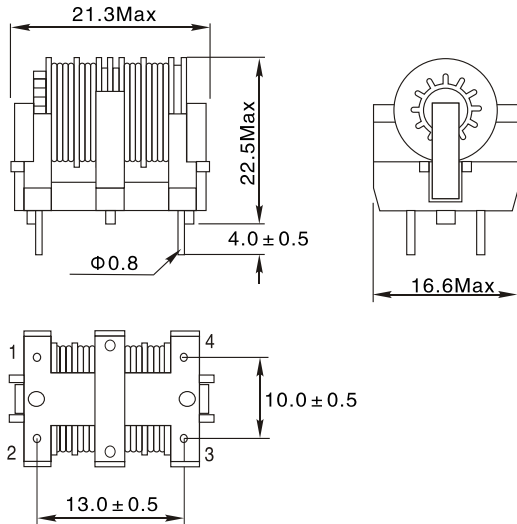
- Switch mode power supplies
- Suppression of common mode noise
- Compact switch mode power supplies
- Electronic ballast applications(LED bulb)
- Lighting

ELECTRICAL CHARACTERISTICS:

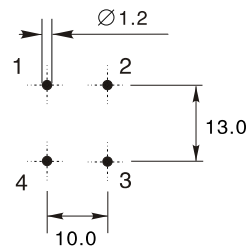
Part Number	L (mH)Min	Rated Current (A)	RDC max. (Ω)
UT2024-821Y	0.82	2.0	0.065
UT2024-122Y	1.2	1.6	0.095
UT2024-182Y	1.8	1.5	0.12
UT2024-222Y	2.2	1.3	0.165
UT2024-272Y	2.7	1.2	0.19
UT2024-332Y	3.3	1.2	0.21
UT2024-392Y	3.9	1.0	0.28
UT2024-562Y	5.6	0.8	0.415
UT2024-682Y	6.8	0.7	0.47
UT2024-103Y	10	0.6	0.71
UT2024-183Y	18	0.5	1.2
UT2024-223Y	22	0.4	1.64
UT2024-333Y	33	0.3	2.5

PHYSICAL CHARACTERISTICS:

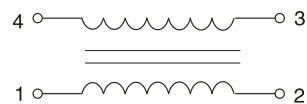
Dimensions 1



Hole pattern(in mm)



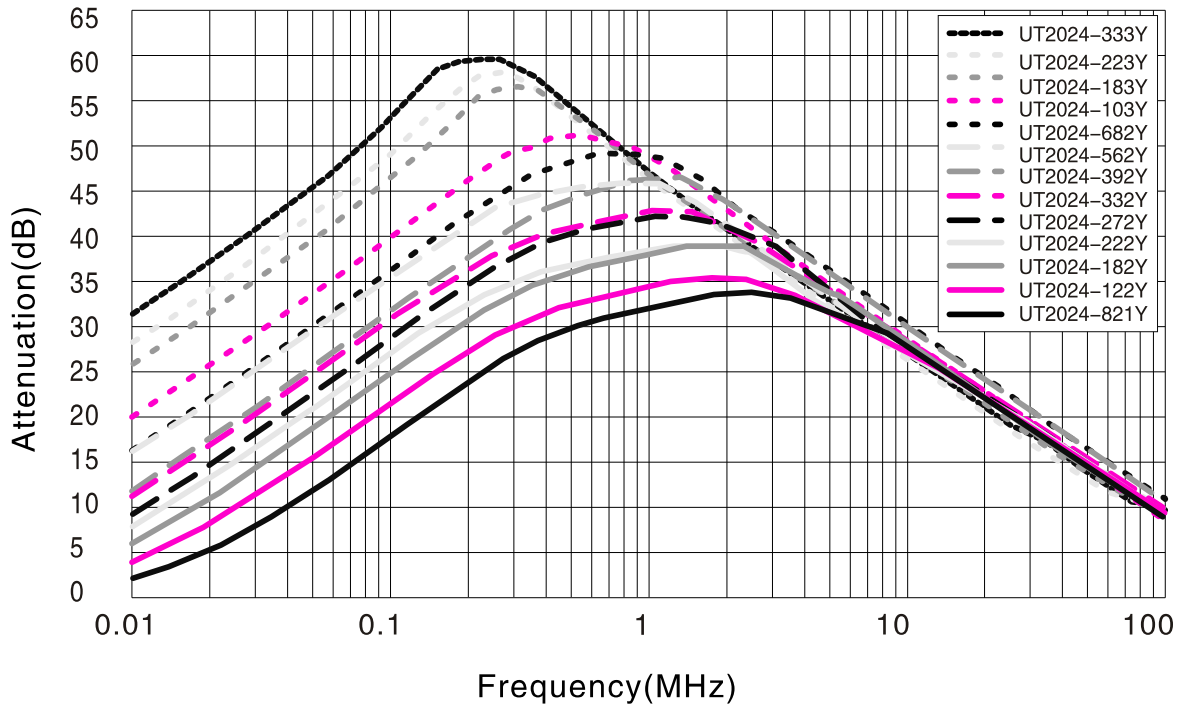
Winding



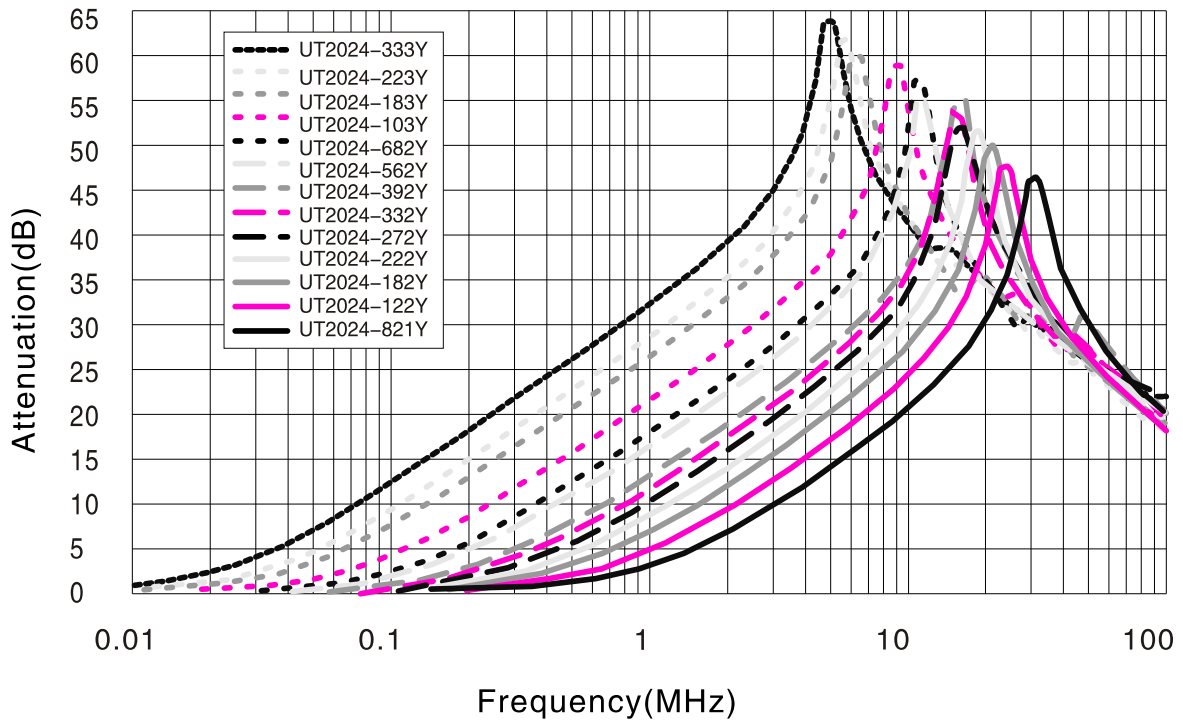
Notes:

- Rated voltage.....250Vac
- Frequency.....50/60Hz
- Insulation test voltage..... 2000V
- Operating temperature.....-25 °C to +125 °C
- Housing..... UL94 V-0

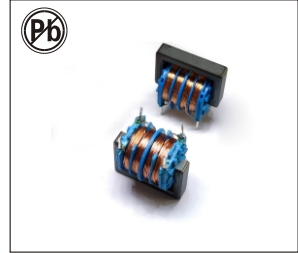
ATTENUATION COMMON MODE



ATTENUATION DIFFERENTIAL MODE



COMMON MODE POWER LINE CHOKE UT2323 SERIES



FEATURES:

- High resonance frequency due to 2-section winding
- Approx. 1% stray inductance for symmetrical interference suppression
- Low leakage due to closed core shape
- High pulse strength
- Low whirring noise
- Suitable for wave soldering
- RoHS-compatible

APPLICATIONS:

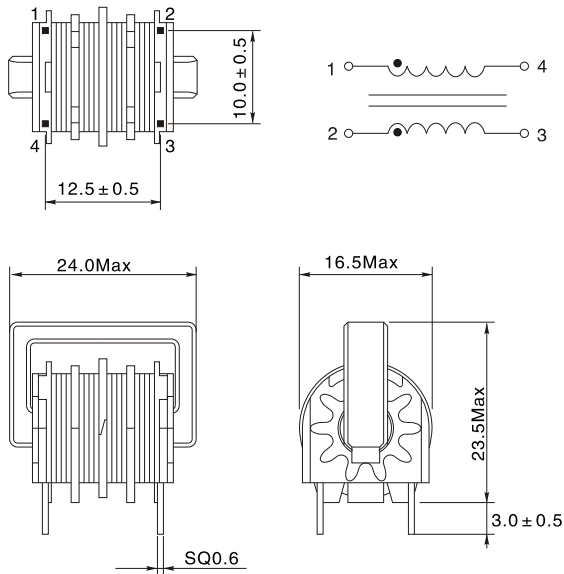
- Suppression of common-mode interferences
- Switch-mode power applications
- Electronic ballasts in lamps

ELECTRICAL CHARACTERISTICS:

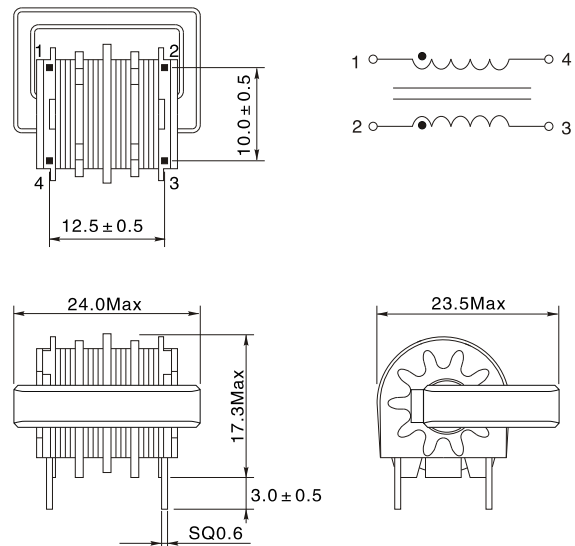
Part Number	L(mH) +50%/-30%	Lk(uH) Typ	Rated Current (A)	RDC(mΩ) Max
UT2323V/H-332Y	3.3	27	2.2	110
UT2323V/H-682Y	6.8	55	1.7	190
UT2323V/H-103Y	10	85	1.4	300
UT2323V/H-153Y	15	125	1.1	440
UT2323V/H-223Y	22	165	1.0	580
UT2323V/H-273Y	27	230	0.9	750
UT2323V/H-393Y	39	330	0.7	1100
UT2323V/H-473Y	47	400	0.6	1400
UT2323V/H-104Y	100	850	0.4	3000

PHYSICAL CHARACTERISTICS:

UT2323V



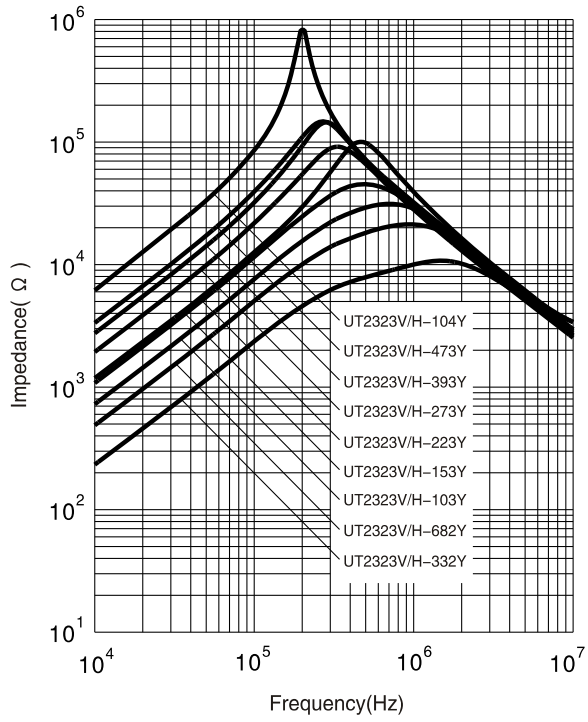
UT2323H



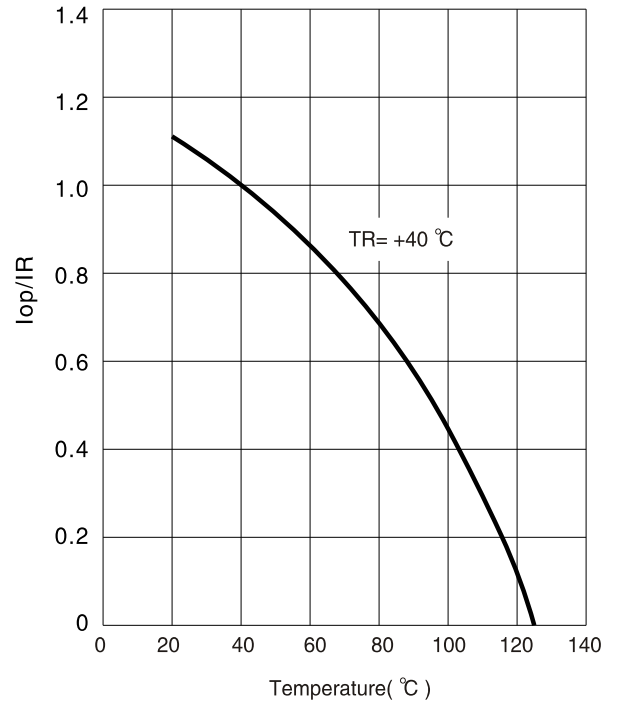
Notes:

- Rated voltage.....250Vac
- Frequency.....50/60Hz
- Insulation test voltage..... 1500V
- Operating temperature.....-25 °C to +125 °C
- Housing..... UL94 V-0

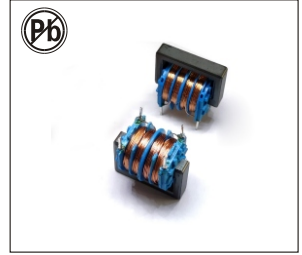
Impedance |Z| versus frequency F
measured with windings in parallel at +20°C
typical values



Current derating Iop/IR
versus ambient temperature TA



COMMON MODE POWER LINE CHOKE UT2020 SERIES



FEATURES:

- High resonance frequency due to 2-section winding
- Approx. 1% stray inductance for symmetrical interference suppression
- Low leakage due to closed core shape
- High pulse strength
- Low whirring noise
- Suitable for wave soldering
- RoHS-compatible

APPLICATIONS:

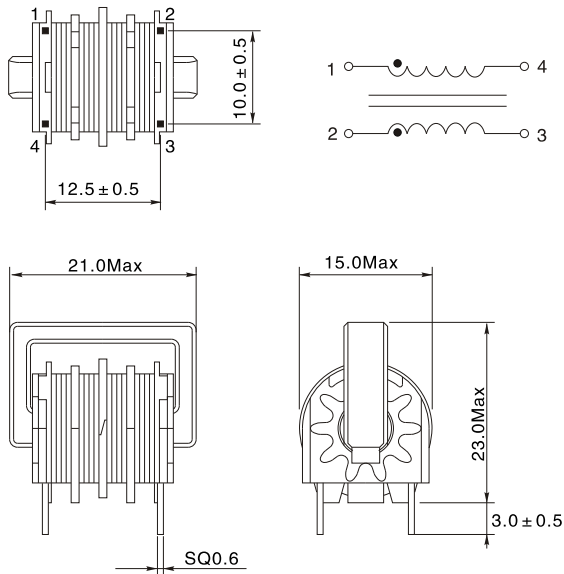
- Suppression of common-mode interferences
- Switch-mode power applications
- Electronic ballasts in lamps

ELECTRICAL CHARACTERISTICS:

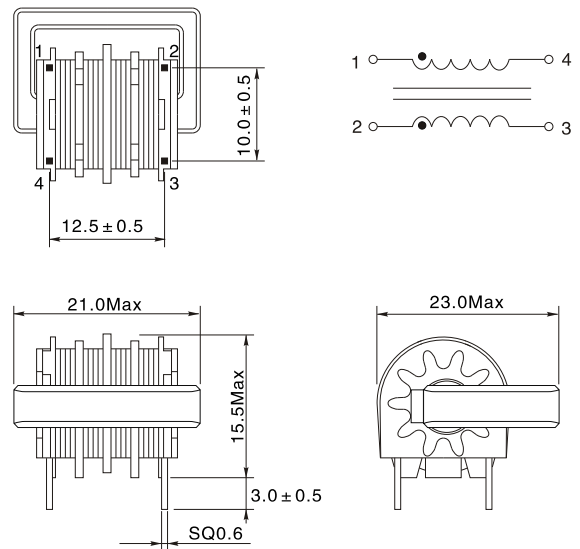
Part Number	L(mH) +50%/-30%	Lk(uH) Typ	Rated Current (A)	RDC(mΩ) Max
UT2020V/H-332Y	3.3	35	1.8	140
UT2020V/H-682Y	6.8	70	1.3	280
UT2020V/H-103Y	10	100	1.1	400
UT2020V/H-153Y	15	150	0.9	600
UT2020V/H-223Y	22	220	0.8	800
UT2020V/H-273Y	27	270	0.7	1000
UT2020V/H-393Y	39	390	0.6	1500
UT2020V/H-473Y	47	470	0.5	2000
UT2020V/H-683Y	68	700	0.4	3000
UT2020V/H-104Y	100	1000	0.35	4500

PHYSICAL CHARACTERISTICS:

UT2020V



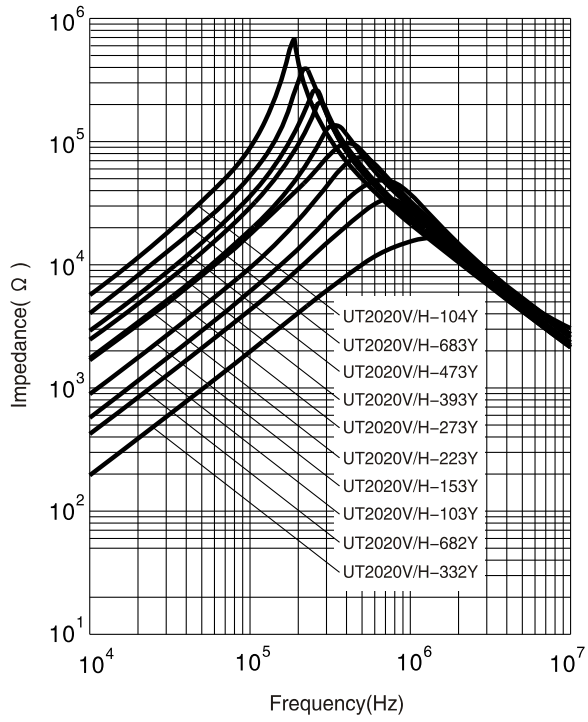
UT2020H



Notes:

- Rated voltage.....250Vac
- Frequency.....50/60Hz
- Insulation test voltage..... 1500V
- Operating temperature.....-25 °C to +125 °C
- Housing..... UL94 V-0

Impedance |Z| versus frequency F
measured with windings in parallel at +20°C
typical values



Current derating Iop/IR
versus ambient temperature TA

