



Common Mode Inductors—UU Series



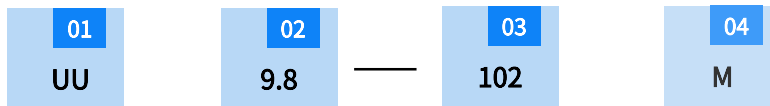
FEATURES

- Metallization on ferrite core results in excellent shock resistance and damage-free durability.
- Closed magnetic circuit design reduces leakage flux and electro magnetic interference.
- Fe base metal material core provides large saturation current.
- Automatic production ensures high quality and consistency.

APPLICATIONS

- Noise suppression and immunity in TVs, TVRs/VCRs, audio equipments, etc,
- Protects AC side from the affects of switching regulators.

PRODUCT IDENTIFICATION



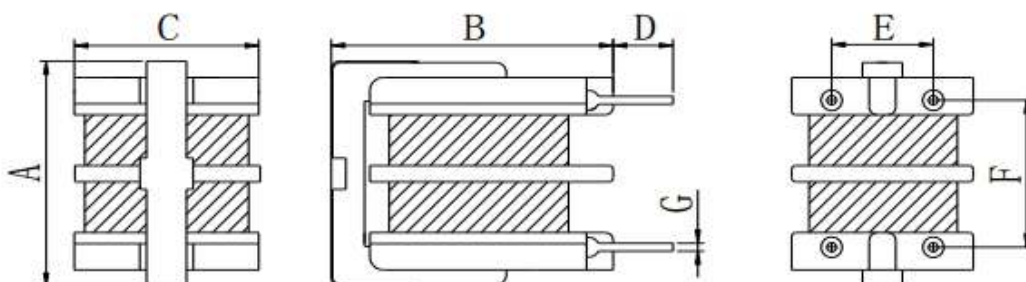
01 Type	
UU	Flat Common Mode Inductor

02 External Dimensions (LxTW(mm))	
9.8	17*12
10.5	19.5*17.5
16	23.5*20.0

03 Nominal Inductance	
Example	Nominal value
501	0.5mH
102	1mH
103	10mH

04 Tolerance	
K	±10%
M	±20%

SHAPE AND DIMENSIONS



Part Number	Dimensions(mm)						
	A	B	C	D	E	F	G
UU9.8	17Max	17Max	12Max	4±0.5	7±0.5	8±0.5	0.6±0.1
UU10.5	19.5Max	22.5Max	17.5Max	4±0.5	10±0.5	13±0.5	0.7±0.1
UU16	23.5Max	29.5Max	20Max	4±0.5	10±0.5	13±0.5	0.7±0.1

SPECIFICATIONS

● UU9.8 TYPE

Part Number	Inductance(mH)	Tolerance	DCR Max(mΩ)	Rated Current (A)
UU9.8-501	0.5	K,M	0.3	1.0
UU9.8-102	1.0		0.6	0.7
UU9.8-202	2.0		1.0	0.5
UU9.8-502	5.0		3.0	0.3
UU9.8-802	8.0		6.0	0.2
UU9.8-103	10		8.0	0.1

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%, M: ±20%;

1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current

3. The products can be customized according to customer requiremen.

● UU10.5 TYPE

Part Number	Inductance(mH)	Tolerance	DCR Max(mΩ)	Rated Current (A)
UU10.5-601	0.6	K,M	0.2	2.0
UU10.5-102	1.0		0.3	1.5
UU10.5-132	1.3		0.4	1.3
UU10.5-152	1.5		0.5	1.0
UU10.5-202	2.0		0.6	0.9
UU10.5-302	3.0		0.8	0.8
UU10.5-402	4.0		1.0	0.7
UU10.5-502	5.0		1.5	0.5
UU10.5-802	8.0		2.0	0.4
UU10.5-103	10		3.0	0.3



● UU16 TYPE

Part Number	Inductance(mH)	Tolerance	DCR Max(mΩ)	Rated Current (A)
UU16-152	1.5	J,K,M	0.2	1.5
UU16-302	3.0		0.3	1.2
UU16-402	4.0		0.4	1.1
UU16-602	6.0		0.5	1.0
UU16-802	8.0		0.8	0.8
UU16-103	10		1.2	0.6
UU16-203	20		1.6	0.5
UU16-303	30		2.8	0.4

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%、M: ±20%;

1. Operating temperature range -40 -125°C

2. Isat for Inductance drop 30% from its value without current

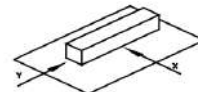
3. The products can be customized according to customer requiremen.



DETAIL ELECTRICAL CHARACTERISTICS

1. Operating temperature range: -40 to + 105°C(Includes temperature when the coil is heated) .
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y

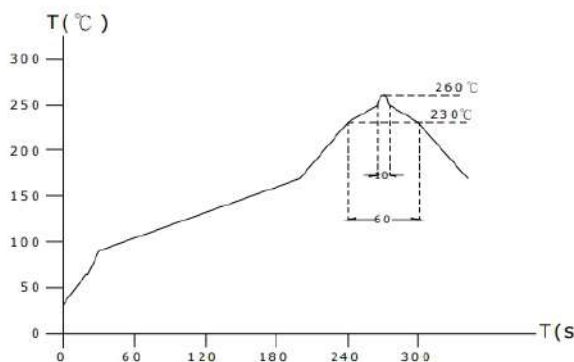
withstanding at below conditions.



Terminal should not peel off. (refer to figure at right) 5. 0N 60 sec.

4. Insulating resistance: Over 100MΩ at 100V D.C. between coil and core.
5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.
6. Temperature characteristics: Inductance coefficient $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$ (-25~+80°C degree Celsius), inductance deviation within $\pm 5.0\%$, after 96 hours.
7. Humidity characteristics(Moisture Resistance): Inductance deviation within $\pm 5\%$, after 96 hours in 90~95% relative humidity at $40 \pm 2^{\circ}\text{C}$ and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within $\pm 5\%$, after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within $\pm 5\%$, after being dropped once with 981m/s² (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.
10. Resistance to Soldering Heat: 260°C, 10 seconds(See attached recommend reflow) .
11. Storage condition: Temperature Range: 0°C ~ 35°C; -40°C ~ 105°C (after PCB), Humidity Range: 50% ~ 70% RH.
12. Use components within 12 months. If 12 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:

Lead-free heat endurance test



Lead-free the recommended reflow condition

