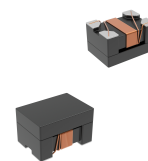


FEATURES

- Winding type realizes small size and low profile
- Prevention of common mode noise at high frequency
- Excellent solderability
- Operating temperature $-40\sim+125^{\circ}\text{C}$ (Including self - temperature rise)



APPLICATIONS

- USB2.0 of PC, peripheral equipments, small digital AV equipments, etc.
- LVDS lines of Note PC, LCD
- Audio lines

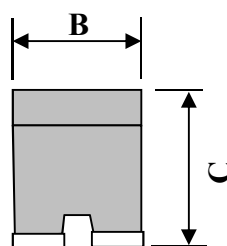
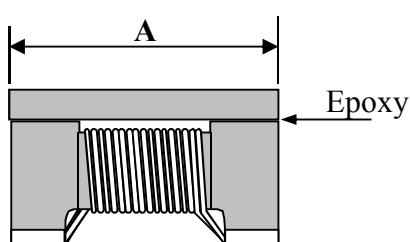
Explanation of Part Number

ACM 3225- 2P- 900 T F

1 2 3 4 5 6

- ◆ 1:Product Series:Wire Wound Chip Common Mode Filters
- ◆ 2:Dimensions:
- ◆ 3: Number of Lines 2P=2 lines
- ◆ 4:Common Mode Impedance(Ω)
- ◆ 5:Packing(Tape & Reel)
- ◆ 6:F:Hazardous Substance Free Products

Shapes and Dimensions [Dimensions in mm]

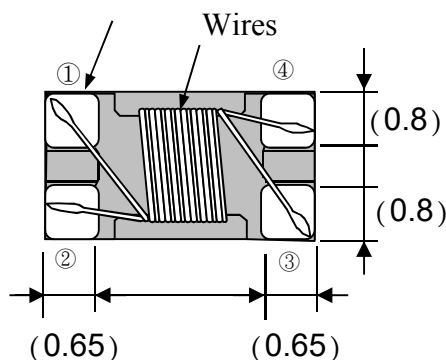


A : 3.2 ± 0.2

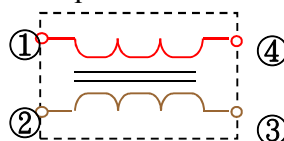
B : 2.5 ± 0.2

C : 2.2 ± 0.2

Terminations

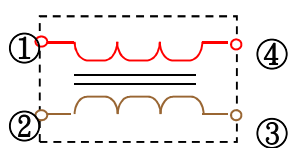


Equivalent circuit



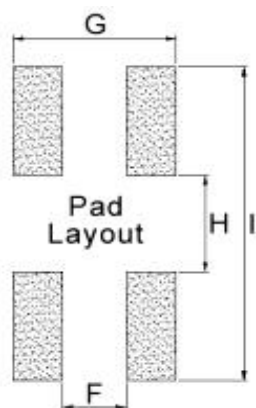
No Polarity

Equivalent circuit



No Polarity

Recommended Footprint



G:3.5Typ

H:1.6Typ

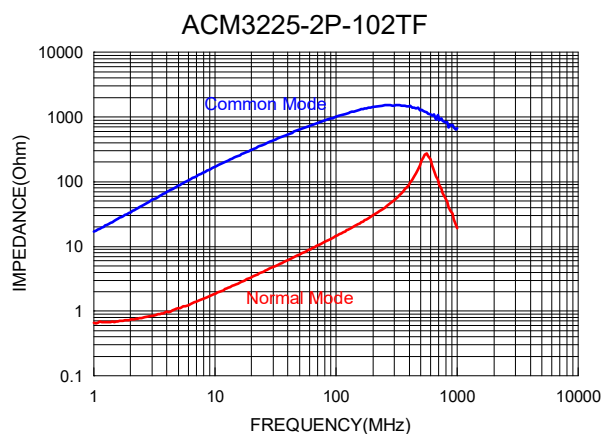
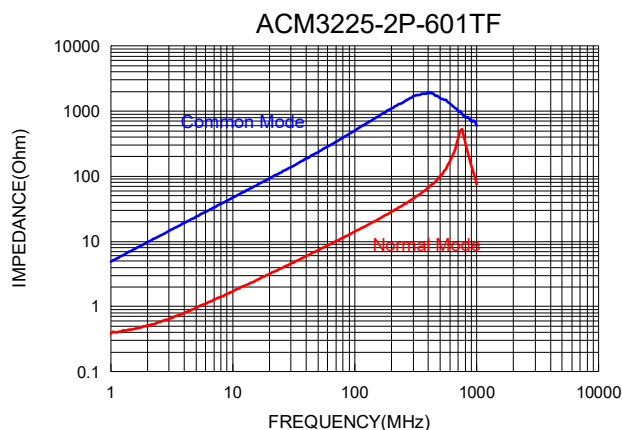
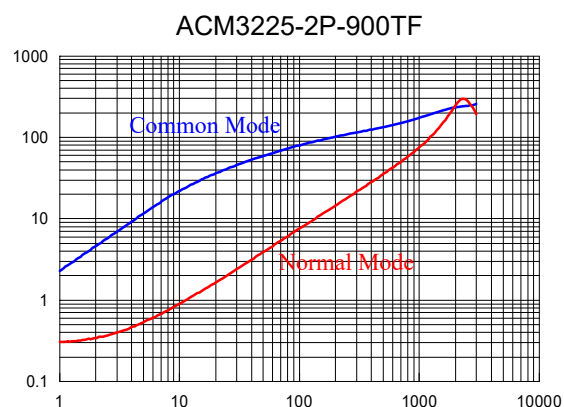
F :0.6Typ.

I:4.4Typ.

Electrical Characteristics:

Part Number	Common mode Impedance (Ω)	Test Frequency (MHz)	DC Resistance (Ω) max.	Rated Current (mA)max.	Rated Volt. (Vdc)max.	Withstand Volt. (Vdc) max.	IR (Ω) min.
ACM3225-2P-900TF	90 $\pm$ 25%	100	0.12	650	50	125	10M
ACM3225-2P-161TF	160 $\pm$ 25%	100	0.15	500	50	125	10M
ACM3225-2P-271TF	270 $\pm$ 25%	100	0.25	450	50	125	10M
ACM3225-2P-501TF	500 $\pm$ 25%	100	0.30	1000	50	125	10M
ACM3225-2P-601TF	600 $\pm$ 25%	100	0.20	1000	50	125	10M
ACM3225-2P-801TF	800 $\pm$ 25%	100	0.35	450	50	125	10M
ACM3225-2P-102TF	1000 $\pm$ 25%	100	0.35	480	50	125	10M

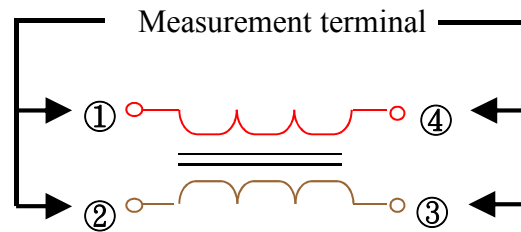
Typical Electrical Characteristics:



Test Equipment

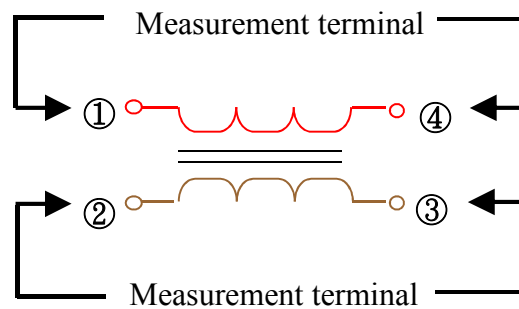
Impedance

Measured by using Agilent E4991A RF Impedance Analyzer.



DC Resistance

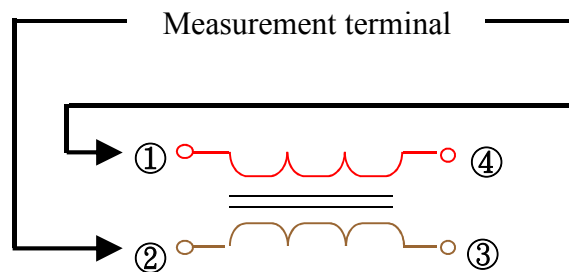
Measured by using Chroma 16502 mill ohm meter.



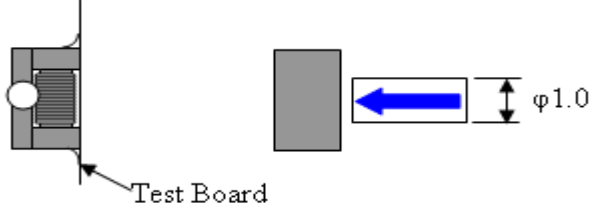
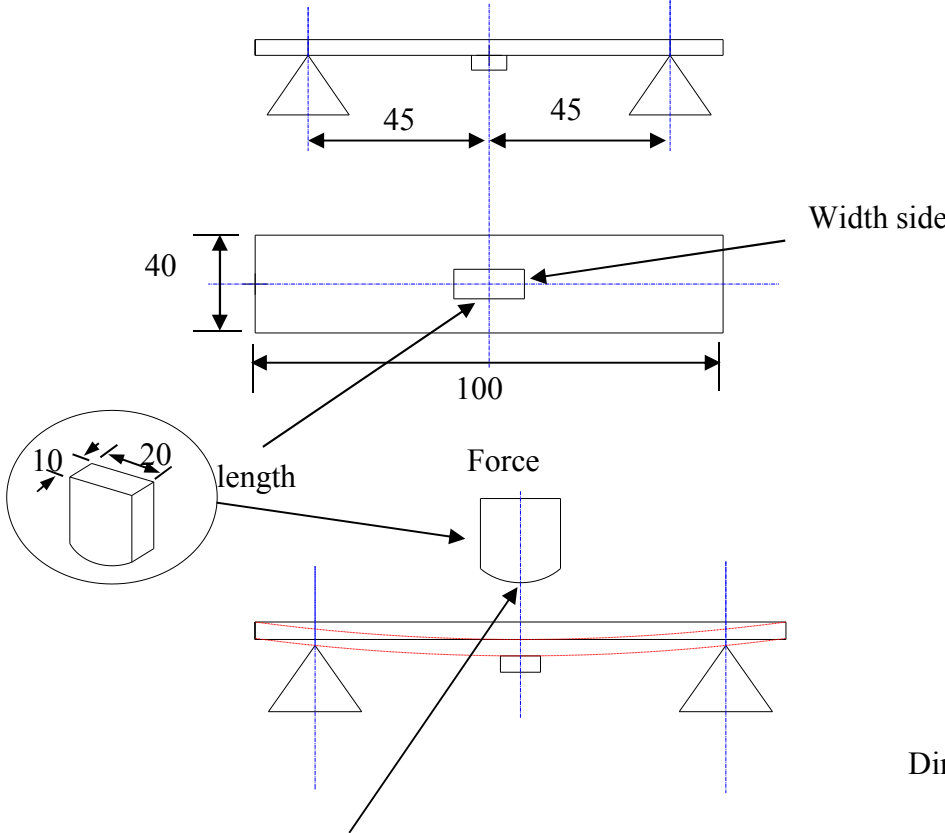
Insulation Resistance

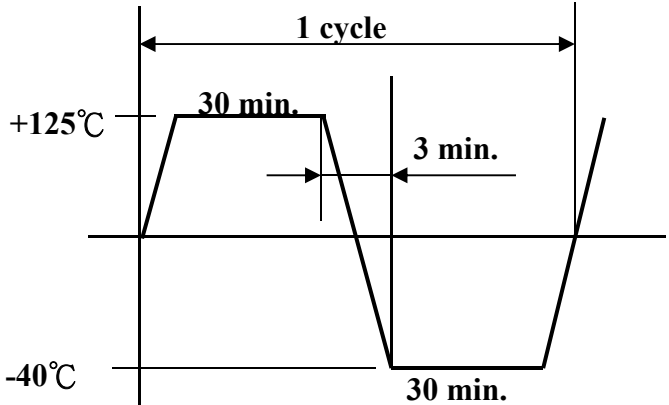
Measured by using Chroma 19073

Measurement voltage : 50v .



Reliability Test

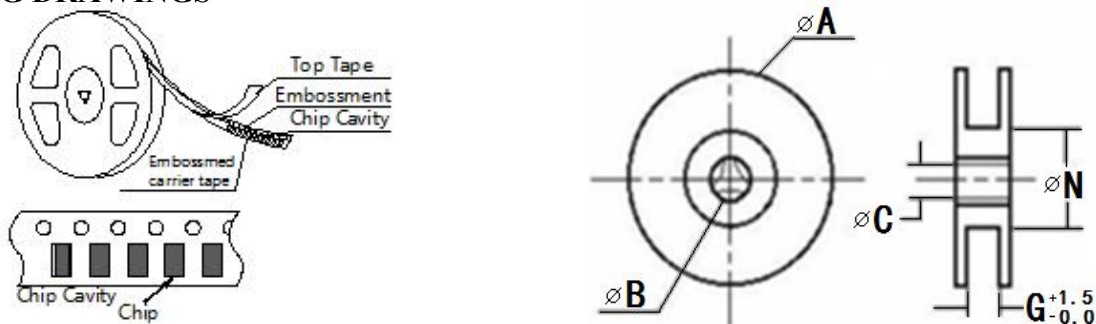
Operating temperature : -40 to +125°C		Storage temp and humidity : 20~25°C ,60%RH max.
Item	Specifications	Test conditions
Solder ability	It can be connected on the Recommendation soldering condition.	Apply cream solder to the test circuit board, It is mounted on the recommendation soldering condition. Dip pads in flux and dip in solder pot(96.5 Sn/3.5 Ag solder) at 255°C ±5°C.
Terminal strength	The terminal electrode and the ferrite must not be damaged.	Solder a chip to test substrate , and then laterally apply a load 0.9Kg in the arrow direction. 
Strength on pc board bending	The terminal electrode and the ferrite must not be damaged.	Soldering a chip to a test substrate , bend the substrate by 2mm and then return.  Dimensions in mm R10 Test board : Glass base epoxy multiplayer board pc board pattern. PC board pattern : Recommended PC board pattern.

Item	Specifications	Test conditions
High temperature resistance	Appearance : Ferrite shall not be damaged. initial value. insulation resistance: >10(MΩ) DC resistance : standard value	Temperature : +125±2°C Applied voltage : Rated voltage Applied current : Rated current Testing time : 500±12 hours Measurement : After placing for 24 hours min.
Humidity resistance	inside.	Temperature : +85±2°C Humidity : 90 to 95%RH Applied current : Rated current Applied voltage : Rated voltage Testing time : 500±12 hours Measurement : After placing for 24 hours min.
Thermal cycle		Temperature : -40°C ,+125°C kept stabilized for 30 minutes each. Cycle : 100 cycle Measurement : After placing for 24 hours min. 
Low temperature resistance		Temperature : -40±2°C Testing time : 500±12 hours Measurement : After placing for 24 hours min.
Vibration	Appearance : Ferrite shall not be damaged.	Frequency : 10 to 50 Hz Amplitude : 1.52 mm Dimension and times : X ,Y and Z directions for 2 hours each.

PACKAGING(unit: mm)

Type	1210
Quantity	1000

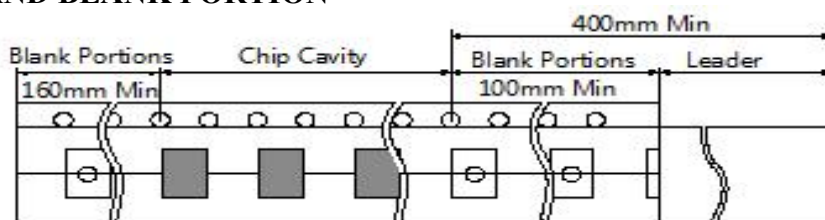
TAPING DRAWINGS



REEL DIMENSIONS(UNIT:mm)

	A	B	C	N	G
CF-12	178±2.0	22±2.0	12.5±1.5	57±2.0	12

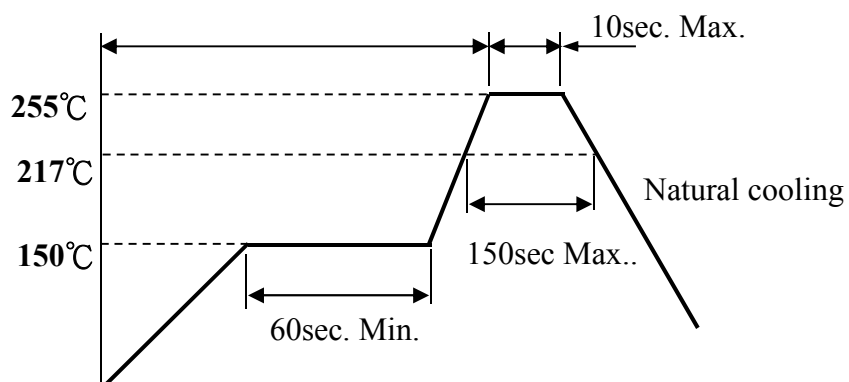
LEADER AND BLANK PORTION



PEELLING OFF FORCE:0.05 to 0.7N in the direction show below.

Recommended Reflow Pattern

Reflow : until two times



Iron Soldering

Use a solder iron of less than 30W when soldering ,do not allow the soldering iron tip directly touch the ferrite body outside of terminal electrode.

5 seconds max. at 260°C.

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