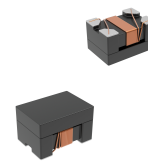


## FEATURES

- Winding type realizes small size and low profile
- Prevention of common mode noise at high frequency
- Excellent solderability
- Operating temperature -40~+125℃ (Including self - temperature rise)



## APPLICATIONS

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

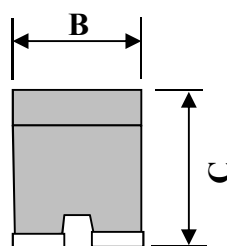
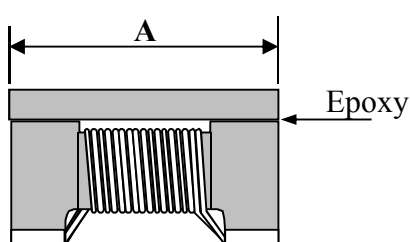
## Explanation of Part Number

**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( $\Omega$ )
- ◆ 5:Packing(Tape & Reel)
- ◆ 6:F:Hazardous Substance Free Products

## Shapes and Dimensions [Dimensions in mm]

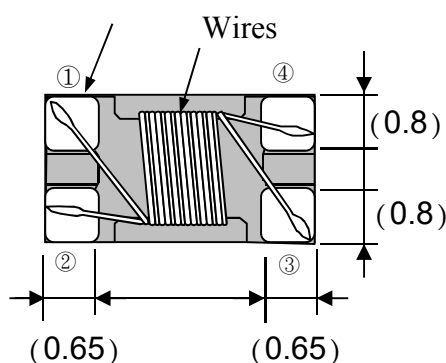


**A :  $3.2 \pm 0.2$**

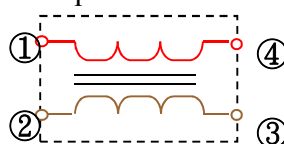
**B :  $2.5 \pm 0.2$**

**C :  $2.2 \pm 0.2$**

### Terminations

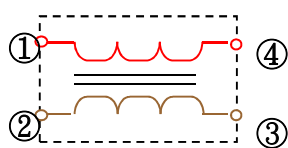


### Equivalent circuit



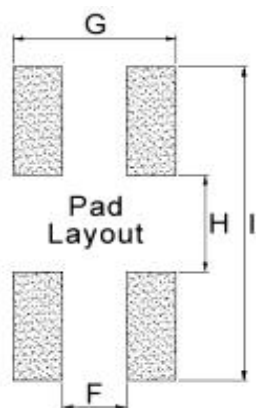
No Polarity

## Equivalent circuit



No Polarity

## Recommended Footprint



G:3.5Typ

H:1.6Typ

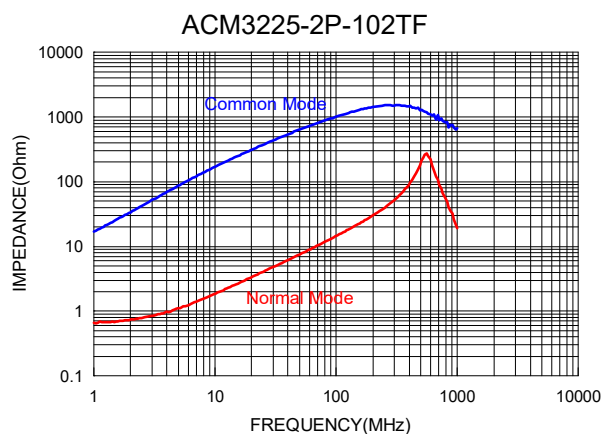
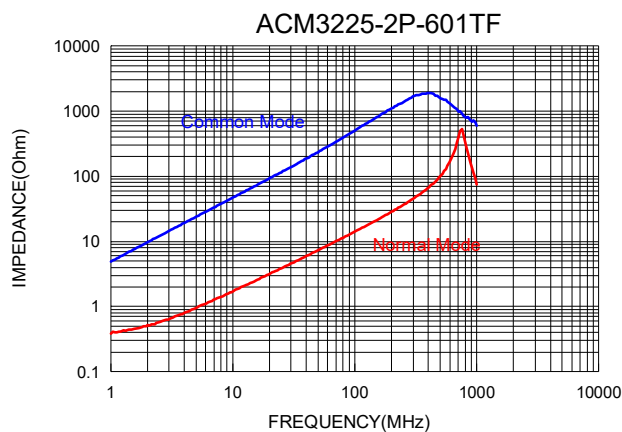
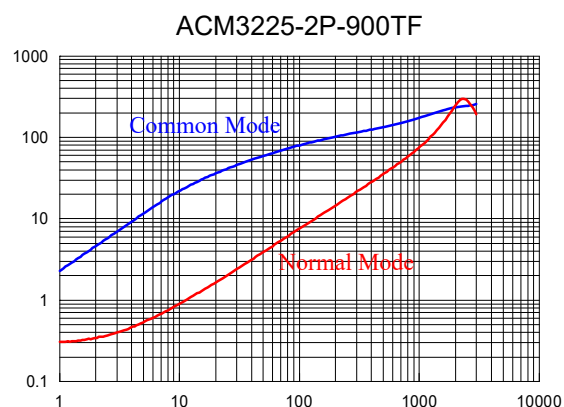
F :0.6Typ.

I:4.4Typ.

## Electrical Characteristics:

| Part Number      | Common mode Impedance ( $\Omega$ ) | Test Frequency (MHz) | DC Resistance ( $\Omega$ ) max. | Rated Current (mA)max. | Rated Volt. (Vdc)max. | Withstand Volt. (Vdc) max. | IR ( $\Omega$ ) 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                  |

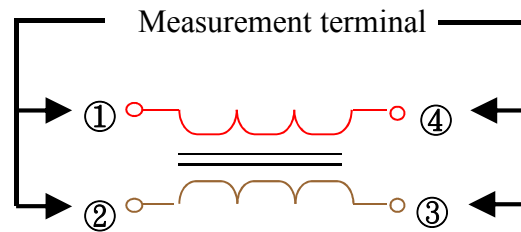
## Typical Electrical Characteristics:



## Test Equipment

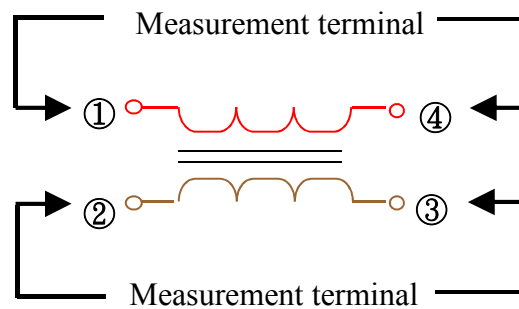
### Impedance

Measured by using Agilent E4991A RF Impedance Analyzer.



### DC Resistance

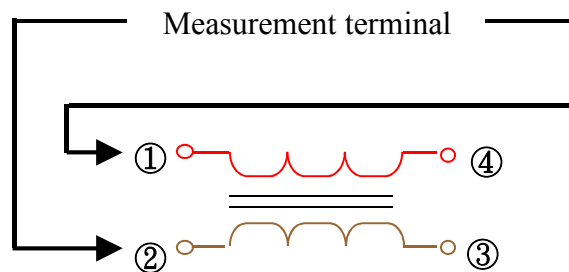
Measured by using Chroma 16502 mill ohm meter.



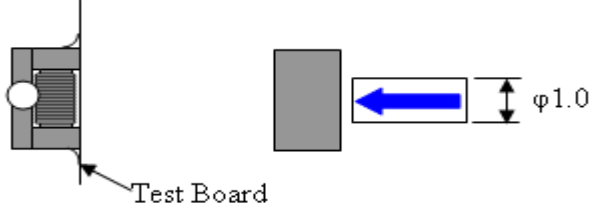
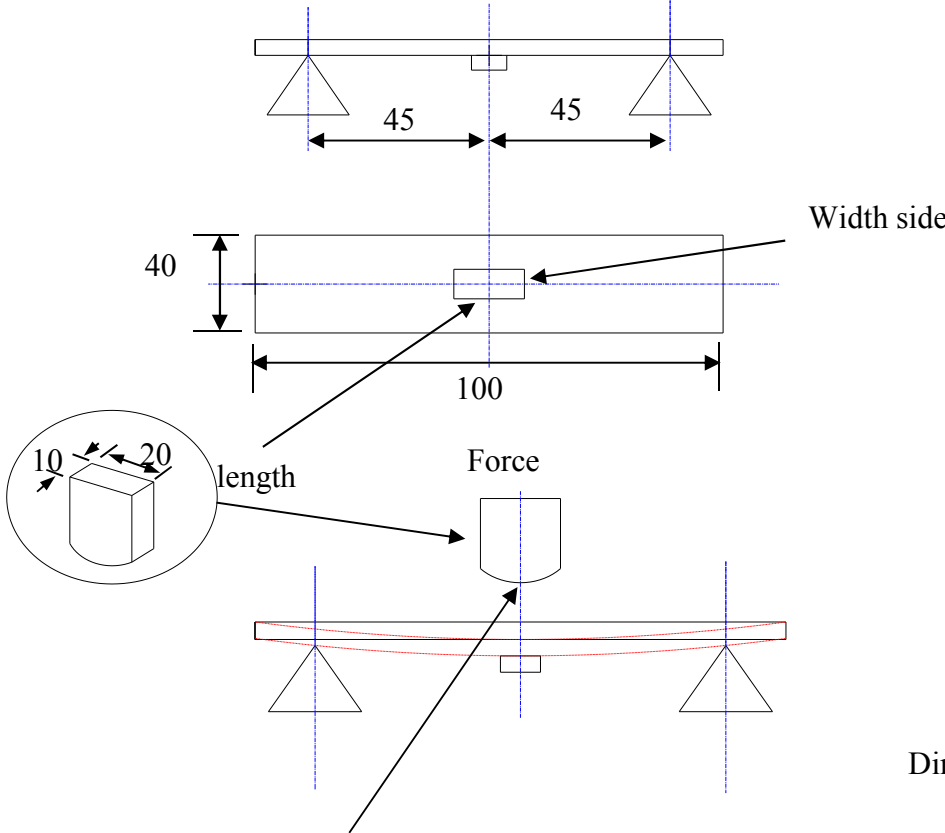
### Insulation Resistance

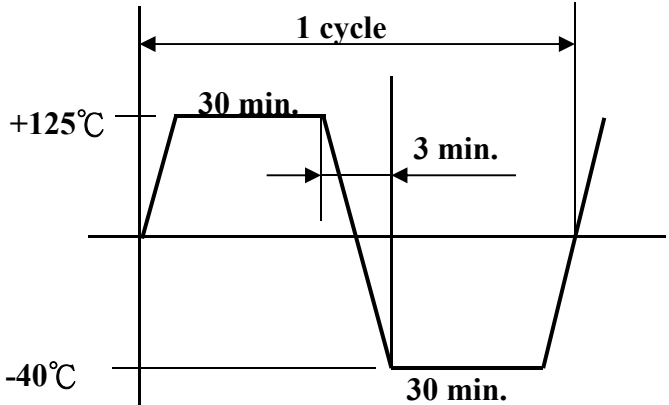
Measured by using Chroma 19073

Measurement voltage : 50v .



## Reliability Test

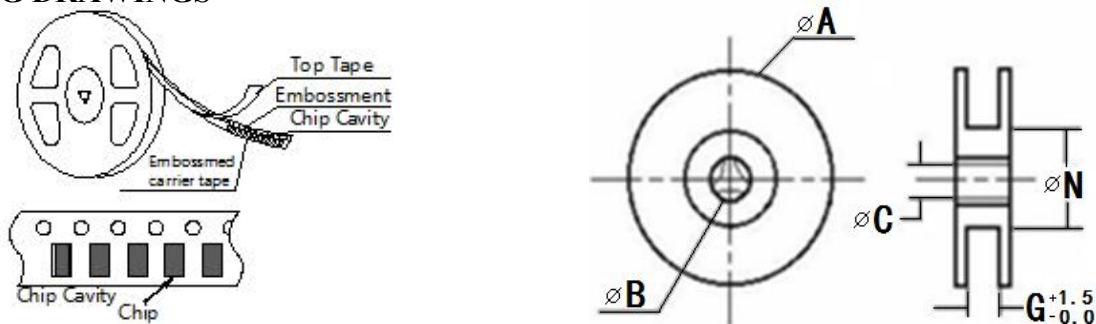
| Operating temperature : -40 to +125°C |                                                                | Storage temp and humidity : 20~25°C ,60%RH max.                                                                                                                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Item                                  | Specifications                                                 | Test conditions                                                                                                                                                                                                                                                                                                                  |
| Solder ability                        | It can be connected on the Recommendation soldering condition. | Apply cream solder to the test circuit board,<br>It is mounted on the recommendation soldering condition.<br>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.<br>                                                                                                                                            |
| Strength on pc board bending          | The terminal electrode and the ferrite must not be damaged.    | Soldering a chip to a test substrate ,<br>bend the substrate by 2mm and then return.<br><br>Dimensions in mm<br>R10<br>Test board : Glass base epoxy multiplayer board pc board pattern.<br>PC board pattern : Recommended PC board pattern. |

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

## PACKAGING(unit: mm)

|          |      |
|----------|------|
| Type     | 1210 |
| Quantity | 1000 |

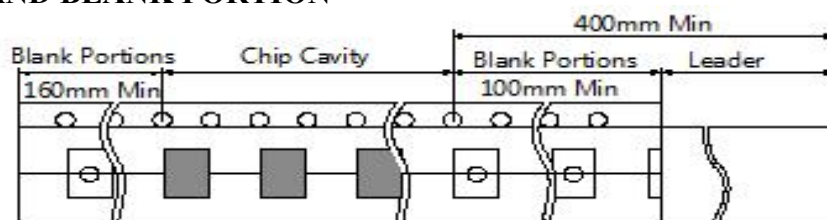
## TAPING DRAWINGS



## 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 |

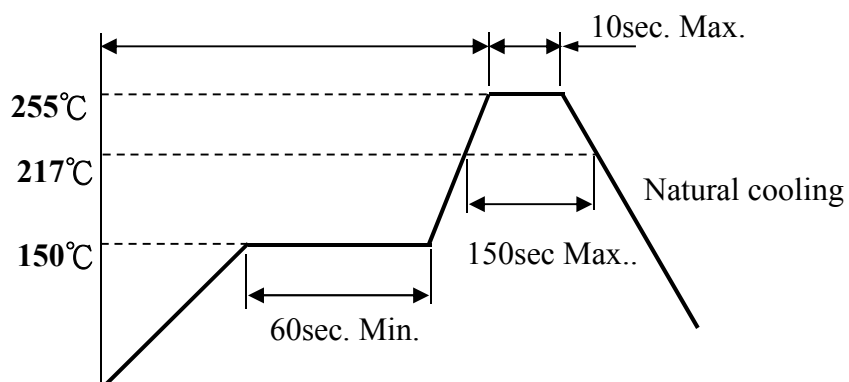
## LEADER AND BLANK PORTION



**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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