

# Wire Wound Type Common Mode Filter

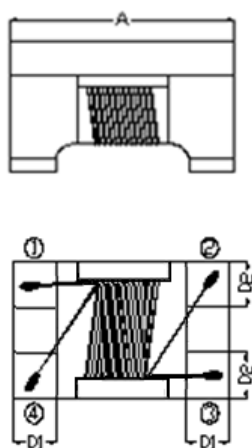
ACM3225F2RV-101T01-T

## 1. Features

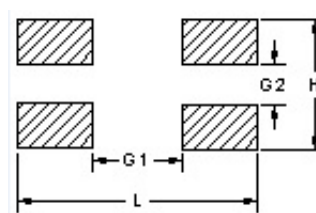
1. High common mode impedance at high frequency effects excellent noise suppression performance.
2. ACM3225F2R series realizes small size and low profile 3.2x2.5x2.5 mm
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
4. Compliant with OPEN Alliance 1000Base-T1 of Ethernet standard.
5. High reliability -Reliability tests comply with AEC-Q200
6. Operating temperature -40~+125°C (Including self - temperature rise)



## 2. Dimension



Recommended PC Board Pattern



| Series  | A(mm)   | B(mm)   | C(mm)   | D1(mm)    | D2(mm)    | L(mm) | H(mm) | G1(mm) | G2(mm) |
|---------|---------|---------|---------|-----------|-----------|-------|-------|--------|--------|
| 3225F2R | 3.3±0.2 | 2.5±0.2 | 2.5 max | 0.55±0.15 | 1.00±0.20 | 3.7   | 2.8   | 2.4    | 0.6    |

Units: mm

## 3. Part Numbering

|     |      |   |   |   |   |   |     |   |    |   |   |
|-----|------|---|---|---|---|---|-----|---|----|---|---|
| ACM | 3225 | F | 2 | R | V | - | 101 | T | 01 | - | T |
| A   | B    | C | D | E | F |   | G   | H | I  |   | J |

A: Series

B: Dimension

C: Material Ferrite Core

D: Number of Lines 2=2 lines

E: Type JRC8G

F: Category Code V=Vehicle

G: Inductance 101=100(μH)

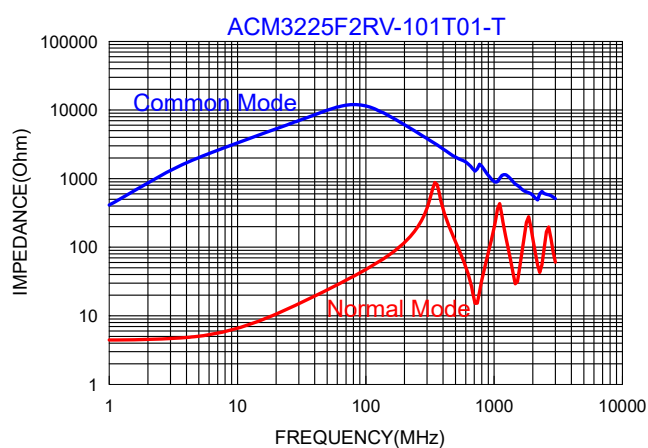
H: Packaging T=Taping and Reel

I: Rated Current 01=100mA

J: Twist

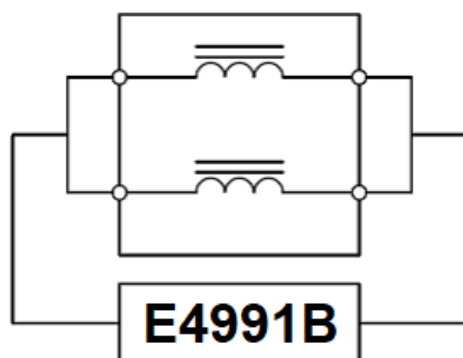
## 4. Specification

| TAI-TECH<br>Part Number | Inductance<br>( $\mu$ H)<br>[100KHz / 0.1V]         |             | DC Resistance<br>( $\Omega$ ) $\pm$ 20%.. | Insertion loss (Sdd21)<br>Max |                                                           |         |          | Return Loss (Sdd11)<br>(Min)<br>(Z OUT=100 $\Omega$ $\pm$ 1%) |                                |                          |
|-------------------------|-----------------------------------------------------|-------------|-------------------------------------------|-------------------------------|-----------------------------------------------------------|---------|----------|---------------------------------------------------------------|--------------------------------|--------------------------|
|                         |                                                     |             |                                           | 10MHz                         | 20MHz                                                     | 100MHz  | 400MHz   | 10MHz                                                         | 80MHz                          | 600MHz                   |
|                         | 100.(typ.)                                          | 80+50%/-30% | 2.60                                      | -0.5 dB                       | -0.5 dB                                                   | -0.8 dB | -1.5 dB  | -25 dB                                                        | -25 dB                         | -14.5 dB                 |
| ACM3225F2RV-101T01-T    | Common To Common-<br>Mode Rejection(Scc21)<br>(Min) |             |                                           |                               | Common To Differential-<br>Mode Rejection(Sds21)<br>(Min) |         |          | Current<br>Rating<br>(mA)Max                                  | Rated<br>voltage<br>(Vdc) max. | IR<br>(M $\Omega$ ) min. |
|                         | 10MHz                                               | 30MHz       | 200MHz                                    | 600MHz                        | 10MHz                                                     | 80MHz   | 600MHz   |                                                               |                                |                          |
|                         | -32.5 dB                                            | -42 dB      | -42 dB                                    | -32.5 dB                      | -65 dB                                                    | -65 dB  | -47.5 dB | 100                                                           | 80                             | 10                       |



## 5. MEASURING CIRCUITS 2LINE

### Common mode



### Differential mode

