

Wire Wound Common Mode Filter for Vehicle Electronics

Features

By adopting a dedicated core, we have achieved compactness while maintaining high impedance characteristics.

Low profile design makes it optimal for surface mounting.

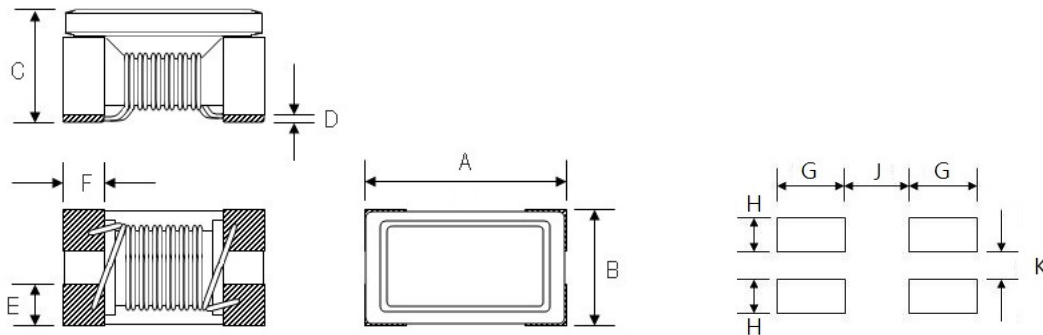
Compliant with AEC-Q200

Application

Measures against common mode noise in power lines for various DC power lines, multimedia devices, and various electronic devices for automotive information applications.

Application guides: Car Infotainment

Dimensions and footprint (Unit : mm)



Unit : mm

| Size | A | B | C | D | E | F | G | H | J | K |
|------------|----------|-----------|----------|----------|------|------|------|------|------|------|
| MFE-3216CI | 3.20±0.2 | 1.60 ±0.2 | 2.00±0.2 | 0.20±0.1 | 0.60 | 0.60 | 1.05 | 0.60 | 1.60 | 0.40 |
| MFE-3225CI | 3.20±0.2 | 2.50 ±0.2 | 2.50 max | 0.20±0.1 | 0.75 | 0.55 | 0.90 | 0.90 | 1.90 | 0.75 |
| MFE-4532CI | 4.50±0.2 | 3.20 ±0.2 | 2.80±0.2 | 0.20±0.1 | 1.20 | 1.00 | 1.35 | 1.32 | 2.40 | 0.75 |

Part Number Code

MFE - 3216CI - 10 1
 1 2 3 4

1 - Series Name

2 - Size Code : the first two digitals : length(mm), the last two digitals : width(mm)

3 - Inductance (μH)

4 - Fixed Decimal Point

{ (ex : 110=11μH ; 101=100μH)

Specification

| Part No. | Inductance (μ H) 100KHz | DCR (Ω) (max) | IDC (mA) (max) | Rated Voltage Vdc (V)Typical | Insulation Resistance IR (M Ω) Min. |
|----------------|---------------------------------|---------------------------|-------------------|------------------------------------|---|
| MFE-3216CI-110 | 11 (+50%/-30%) | 1.20 | 300 | 80 | 10 |
| MFE-3216CI-220 | 22 (+50%/-30%) | 1.70 | 250 | 80 | 10 |
| MFE-3216CI-510 | 51 (+50%/-30%) | 2.10 | 200 | 80 | 10 |
| MFE-3216CI-101 | 100 (+50%/-30%) | 2.50 | 120 | 80 | 10 |
| MFE-3216CI-201 | 200 (+30%/-20%) | 4.00 | 70 | 80 | 10 |

| Part No. | Impedance (Ω) 10MHz | Inductance (μ H) 100KHz | DCR (Ω) (max) | IDC (mA) (max) | Rated Voltage Vdc (V)Typical | Insulation Resistance IR (M Ω) Min. |
|----------------|---------------------------------|---------------------------------|---------------------------|-------------------|------------------------------------|---|
| MFE-3225CI-110 | 300 min/500 typ. | 11 (+50%/-30%) | 0.40 | 300 | 80 | 10 |
| MFE-3225CI-220 | 500 min/1000 typ. | 22 (+50%/-30%) | 0.50 | 250 | 80 | 10 |
| MFE-3225CI-510 | 1000 min/2600 typ. | 51 (+50%/-30%) | 0.70 | 200 | 80 | 10 |
| MFE-3225CI-101 | 2200 min/5100 typ. | 100 (+50%/-30%) | 1.50 | 150 | 80 | 10 |
| MFE-3225CI-201 | 10000 min/15000 typ. | 200 (+30%/-20%) | 4.80 | 70 | 80 | 10 |

| Part No. | Impedance (Ω) 10MHz | Inductance (μ H) 100KHz | DCR (Ω) (max) | IDC (mA) (max) | Rated Voltage Vdc (V)Typical | Insulation Resistance IR (M Ω) Min. |
|----------------|---------------------------------|---------------------------------|---------------------------|-------------------|------------------------------------|---|
| MFE-4532CI-110 | 300 min/700 typ. | 11 (+50%/-30%) | 0.60 | 250 | 50 | 10 |
| MFE-4532CI-220 | 500 min/1000 typ. | 22 (+50%/-30%) | 1.00 | 200 | 50 | 10 |
| MFE-4532CI-510 | 1000 min/2000 typ. | 51 (+50%/-30%) | 1.00 | 200 | 50 | 10 |
| MFE-4532CI-101 | 2000 min/5000 typ. | 100 (+50%/-30%) | 2.00 | 150 | 50 | 10 |
| MFE-4532CI-201 | 10000 min/15000 typ. | 200 (+50%/-30%) | 4.50 | 100 | 50 | 10 |