

High Current Common Mode Choke



FEATURES

- Surface mountable (multiple case sizes), high current common mode choke for DC power line
- Base terminals are treated, allows for easy mounting on PCB
- Paired wire coil for high stability
- Optimized for transmission of high quality signals
- Operating temperature: -40 °C to +85 °C
- Rated Current: Based on temp. rise; ΔT : 40 °C, typical
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912


**RoHS
COMPLIANT**

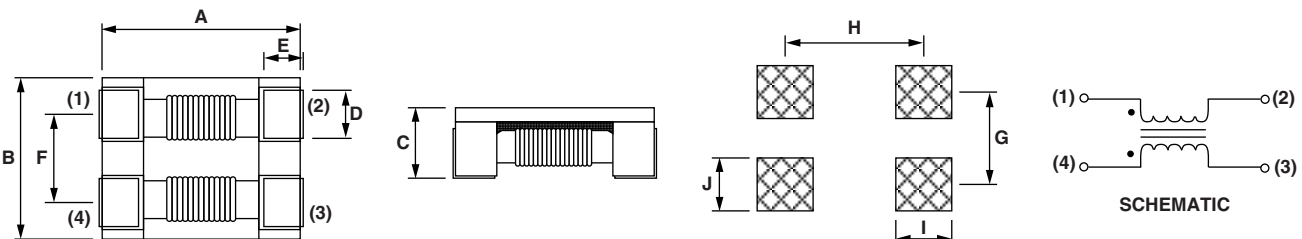
APPLICATIONS

- LAN's, telephones, personal computers
- CD-ROM drives, electronic games
- Other electronic devices

STANDARD ELECTRICAL SPECIFICATIONS

| PART NUMBER | COMMON MODE IMPEDANCE AT 100 MHz (Ω) | RATED VOLTAGE MAX. (V_{DC}) | RATED CURRENT MAX. (mA) | DC RESISTANCE MAX. (Ω) | INSULATION RESISTANCE MIN. (M Ω) |
|---------------|---|---------------------------------|-------------------------|---------------------------------|--|
| ICM2824ER301V | 300 | 80 | 5000 | 0.01 | 10 |
| ICM2824ER701V | 700 | 80 | 4000 | 0.015 | 10 |
| ICM3528ER701V | 700 | 80 | 5000 | 0.01 | 10 |
| ICM3528ER152V | 1500 | 80 | 4500 | 0.015 | 10 |
| ICM4743ER701V | 700 | 80 | 8000 | 0.006 | 10 |
| ICM4743ER102V | 1000 | 80 | 6000 | 0.014 | 10 |

DIMENSIONS in inches [millimeters]

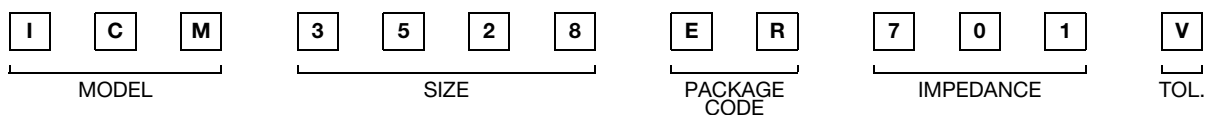

LAND PATTERN

| PART NUMBER | A | B | C | D | E | F | G | H | I | J |
|-------------|------------------------------|-------------------------------|---------------------|------------------------------|------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| ICM-2824 | 0.276 ± 0.012 [7.0 ± 0.3] | 0.236 ± 0.008 [6.0 ± 0.2] | 0.157 [4.0] max. | 0.063 ± 0.012 [1.6 ± 0.3] | 0.071 ± 0.012 [1.8 ± 0.3] | 0.118 [3.0] typ. | 0.118 [3.0] ref. | 0.256 [6.5] ref. | 0.098 [2.5] ref. | 0.063 [1.6] ref. |
| ICM-3528 | 0.354 ± 0.020 [9.0 ± 0.5] | 0.276 ± 0.012 [7.0 ± 0.3] | 0.197 [5.0] max. | 0.060 ± 0.008 [1.5 ± 0.2] | 0.060 ± 0.008 [1.5 ± 0.2] | 0.138 [3.5] typ. | 0.138 [3.5] ref. | 0.335 [8.5] ref. | 0.098 [2.5] ref. | 0.071 [1.8] ref. |
| ICM-4743 | 0.472 ± 0.20 [12.0 ± 0.5] | 0.433 ± 0.012 [11.0 ± 0.3] | 0.248 [6.3] max. | 0.106 ± 0.008 [2.7 ± 0.2] | 0.091 ± 0.008 [2.3 ± 0.2] | 0.205 [5.2] typ. | 0.205 [5.2] ref. | 0.374 [9.5] ref. | 0.177 [4.5] ref. | 0.106 [2.7] ref. |

DESCRIPTION

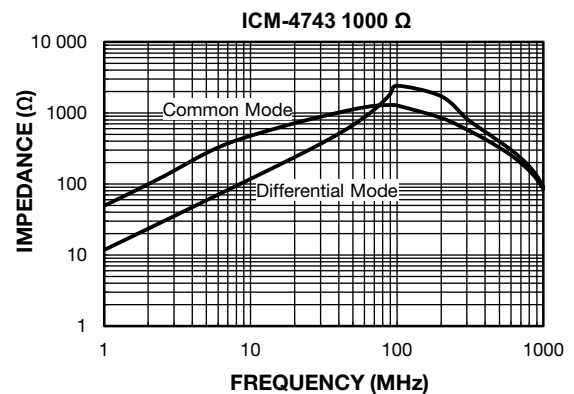
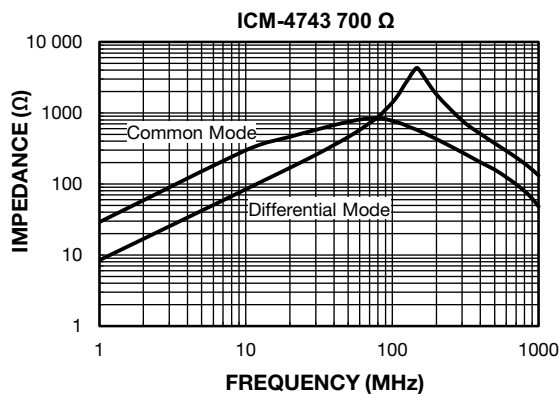
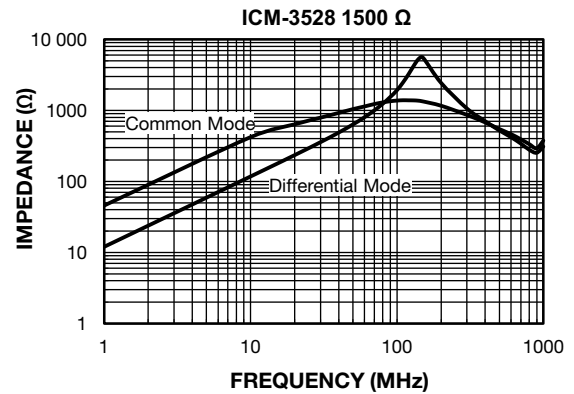
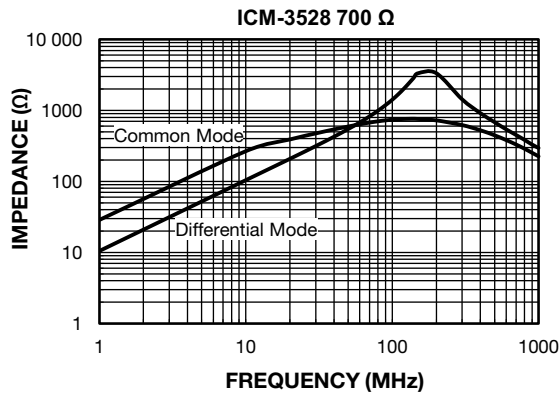
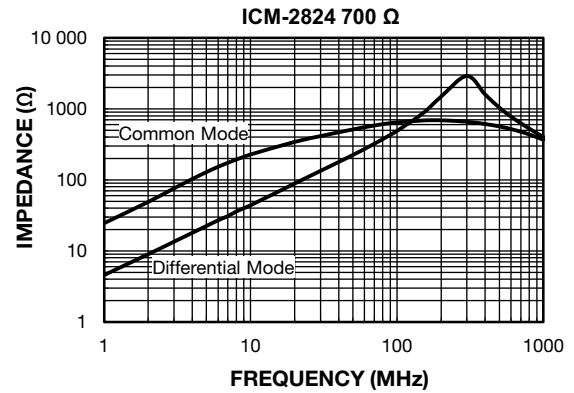
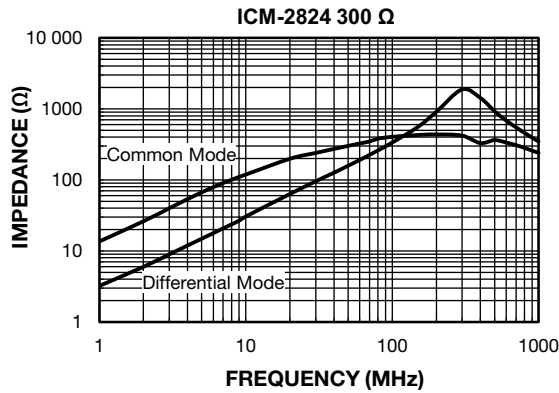
| | | | | |
|----------|-----------------|-----------|--------------|--------------------------------|
| ICM-3528 | 700 | 25 % | ER | e3 |
| MODEL | IMPEDANCE VALUE | TOLERANCE | PACKAGE CODE | JEDEC® LEAD (Pb)-FREE STANDARD |

GLOBAL PART NUMBER





PERFORMANCE GRAPHS: IMPEDANCE VS. FREQUENCY CHARACTERISTICS





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