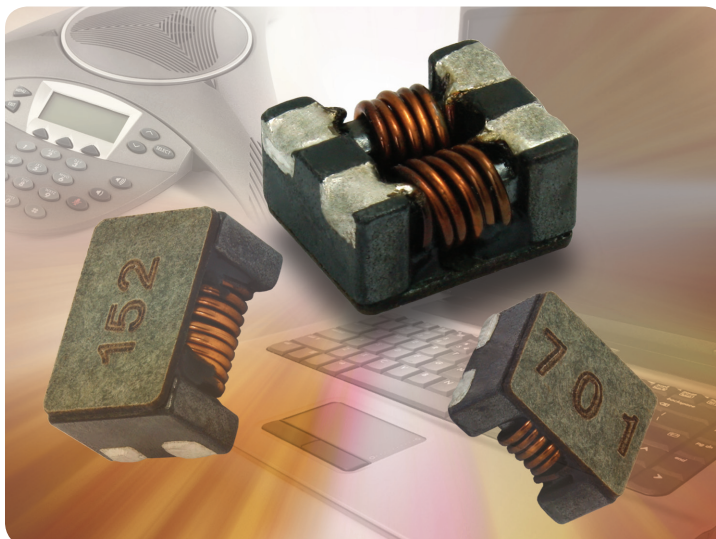


# COMMON MODE CHOKE

ICM-2824, ICM-3528, ICM-4743

## High-Current Common Mode Choke



### KEY BENEFITS

- Rated for currents up to 8 A
- Provides noise suppression for DC power lines
- SMD construction
- Base terminals are treated, allows for easy mounting on PCB
- Paired wire coil for high stability
- Optimized for transmission of high quality signals
- Compliant to RoHS Directive 2002/95/EC

### APPLICATIONS

- Noise suppression in power line applications for local area networks (LAN), personal computers, CD-ROM drives, telephones, and electronic games

### RESOURCES

- Datasheet: ICM-2824, ICM-3528, ICM-4743 - <http://www.vishay.com/doc?34325>
- For technical questions contact [magnetics@vishay.com](mailto:magnetics@vishay.com)

# COMMON MODE CHOKE

## ICM-2824, ICM-3528, ICM-4743

### High-Current Common Mode Choke



#### FEATURES

- SMD 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: - 25 °C to + 85 °C
- Rated Current: Based on temp. rise;  $\Delta T$ : 40 °C, typical
- Compliant to RoHS Directive 2002/95/EC



**RoHS**  
COMPLIANT

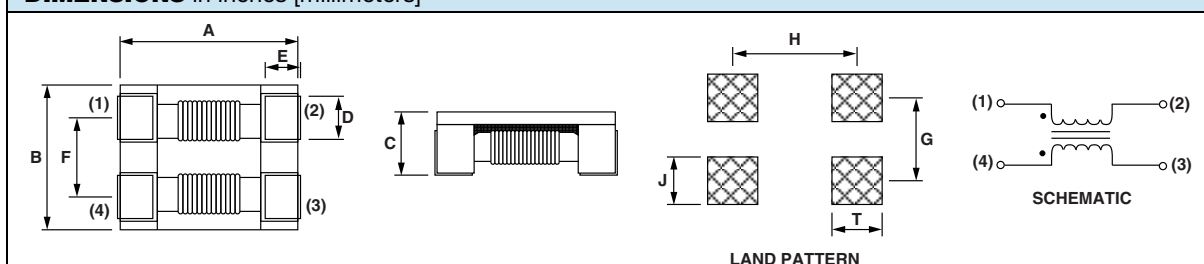
#### APPLICATIONS

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

#### STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	IMPEDANCE AT 100 MHz $\pm 25\%$ ( $\Omega$ )	RATED VOLTAGE MAX. (V <sub>DC</sub> )	RATED CURRENT MAX. (A)	DC RESISTANCE MAX. ( $\Omega$ )	INSULATION RESISTANCE MIN. (M $\Omega$ )
ICM2824ER301V	300	80	5.0	0.01	10
ICM2824ER701V	700	80	4.0	0.015	10
ICM3528ER701V	700	80	5.0	0.01	10
ICM3528ER152V	1500	80	4.5	0.015	10
ICM4743ER701V	700	80	8.0	0.006	10
ICM4743ER102V	1000	80	6.0	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 $\pm$ 0.012 [7.0 $\pm$ 0.3]	0.236 $\pm$ 0.008 [6.0 $\pm$ 0.2]	0.157 [4.0] max.	0.063 $\pm$ 0.012 [1.6 $\pm$ 0.3]	0.071 $\pm$ 0.012 [1.8 $\pm$ 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 $\pm$ 0.020 [9.0 $\pm$ 0.5]	0.276 $\pm$ 0.012 [7.0 $\pm$ 0.3]	0.197 [5.0] max.	0.060 $\pm$ 0.008 [1.5 $\pm$ 0.2]	0.060 $\pm$ 0.008 [1.5 $\pm$ 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 $\pm$ 0.20 [12.0 $\pm$ 0.5]	0.433 $\pm$ 0.012 [11.0 $\pm$ 0.3]	0.248 [6.3] max.	0.106 $\pm$ 0.008 [2.7 $\pm$ 0.2]	0.091 $\pm$ 0.008 [2.3 $\pm$ 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

I	C	M	3	5	2	8	E	R	7	0	1	V
MODEL			SIZE				PACKAGE CODE		IMPEDANCE			TOL.

Revision 27-Oct-11