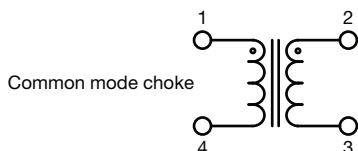
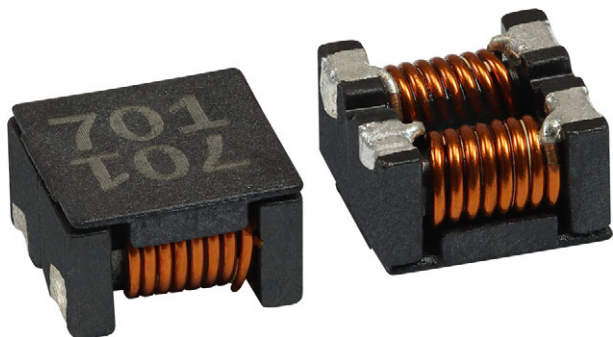


High Current, SMD Common Mode Choke



FEATURES

- Wirewound ferrite common mode choke
- 5.5 mm x 5.5 mm x 3.5 mm SMD package
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

APPLICATIONS

- DC/DC power supplies
- LCD displays
- Noise suppression and filtering
- Lighting drivers
- Battery powered devices

ELECTRICAL SPECIFICATIONS

Resistance to solder heat: 250 °C peak for < 30 s (3 times max. through reflow)

LINKS TO ADDITIONAL RESOURCES



[Product Page](#)

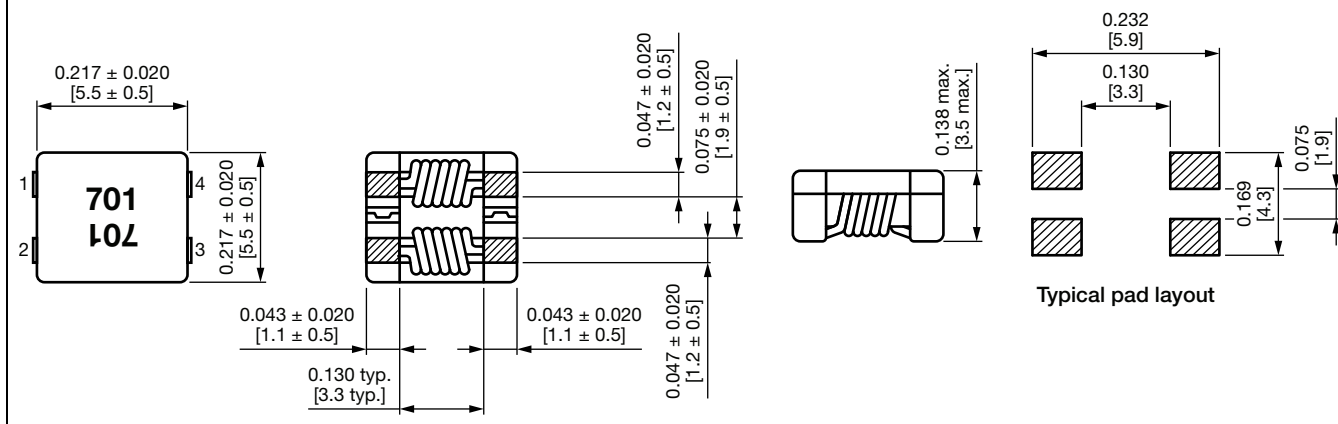
STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	COMMON MODE IMPEDANCE AT 10 MHz, TYP. (Ω)	COMMON MODE IMPEDANCE AT 100 MHz, TYP. (Ω)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾
ICM2020ER101R	50	100	6	8.5
ICM2020ER301R	70	300	7.5	4.8
ICM2020ER501R	150	500	10.5	4.5
ICM2020ER701R	200	700	13	3.8
ICM2020ER102R	250	1000	20	3.0
ICM2020ER142R	300	1400	38	2.8

Notes

- All test data is referenced to 25 °C ambient
- DCR specification is for a single coil
- Rated operating voltage = 80 V_{DC}
- Insulating resistance 10 MΩ min.
- Operating temperature range -40 °C to +125 °C
- Storage condition: -40 °C to +125 °C (on board); less than 40°C and < 60 % RH (in component packaging)

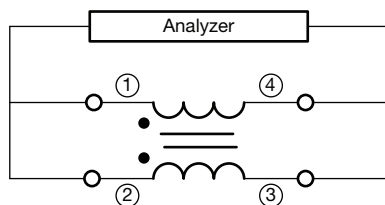
⁽¹⁾ DC current (A) that will cause an approximate ΔT of 40 °C

DIMENSIONS in inches [millimeters]

GLOBAL PART NUMBER

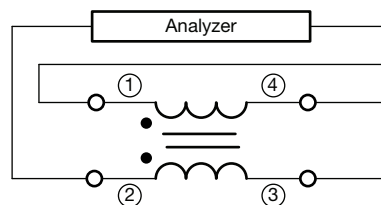
I	C	M	2	0	2	0	E	R	3	0	1	R
PRODUCT FAMILY			SIZE				PACKAGE CODE		IMPEDANCE VALUE			TOLERANCE
							ER = tape and reel		301 = 300 Ω			R = 50 %

SCHEMATICS

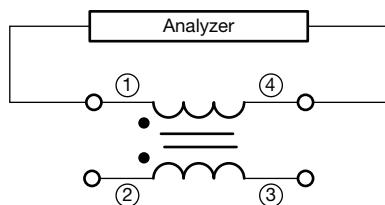
Common Mode Impedance



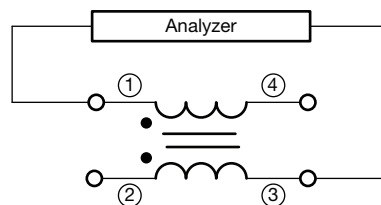
Differential Mode Impedance

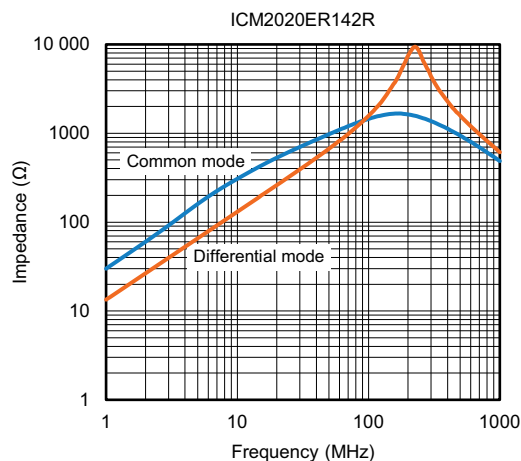
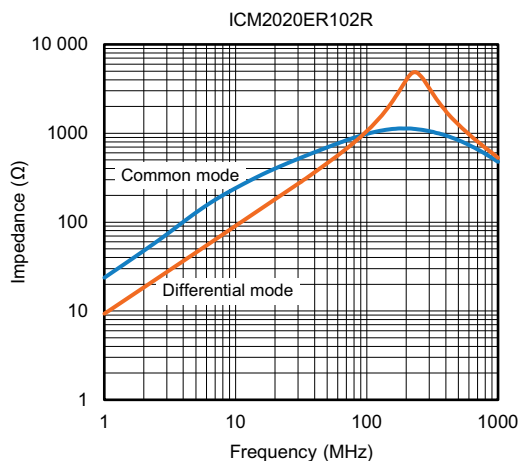
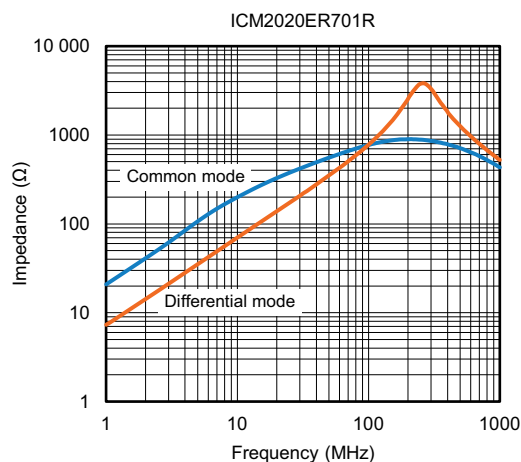
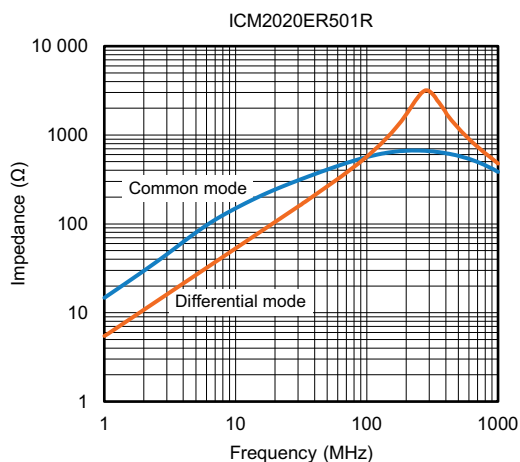
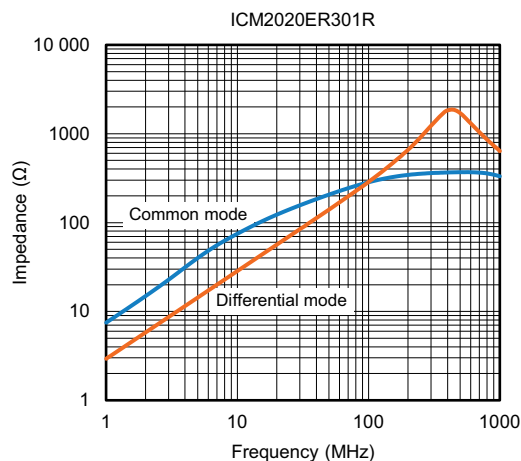
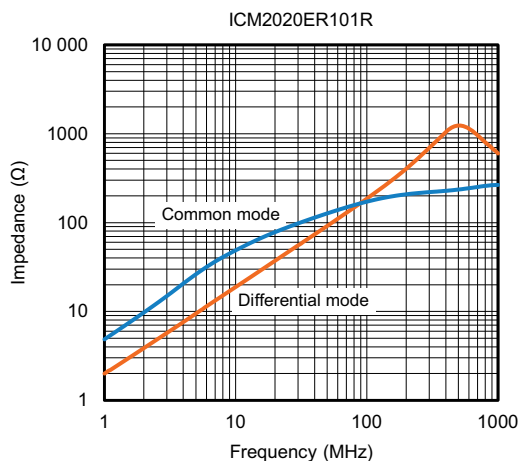


DC Resistance



Insulation Resistance



PERFORMANCE GRAPHS




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