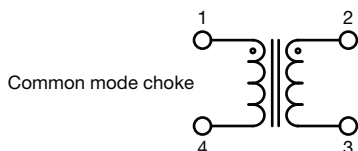
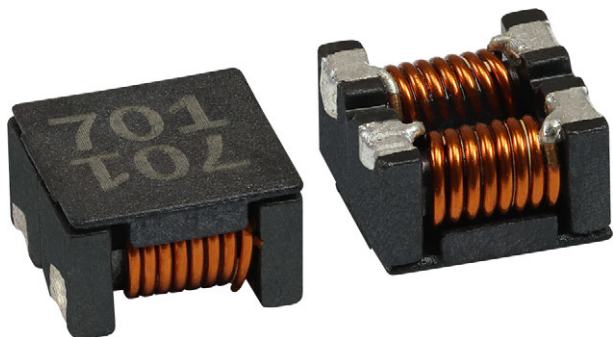


High Current, SMD Common Mode Choke



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



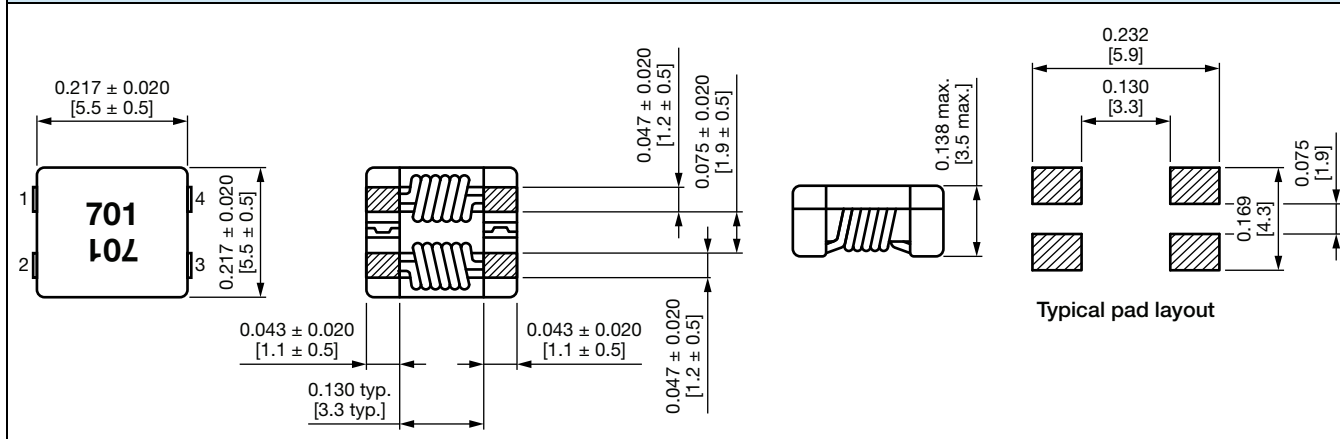
Product Page

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)

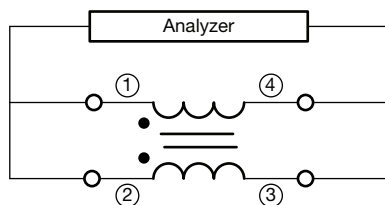
⁽¹⁾ DC current (A) that will cause an approximate ΔT of 40 °C

DIMENSIONS in inches [millimeters]

GLOBAL PART NUMBER

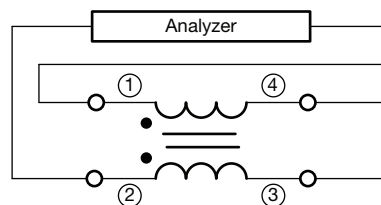
I	C	M	2	0	2	0	E	R	3	0	1	R
PRODUCT FAMILY			SIZE				PACKAGE CODE		IMPEDANCE VALUE			TOLERANCE
							ER = tape and reel		301 = 300 Ω			R = 50 %

SCHEMATICS

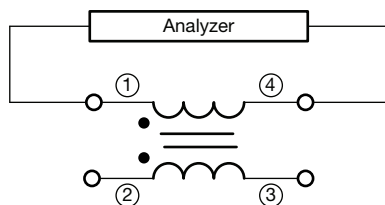
Common Mode Impedance



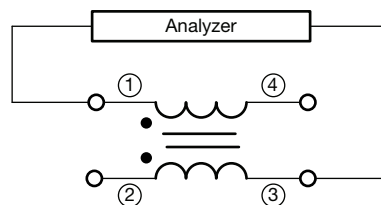
Differential Mode Impedance

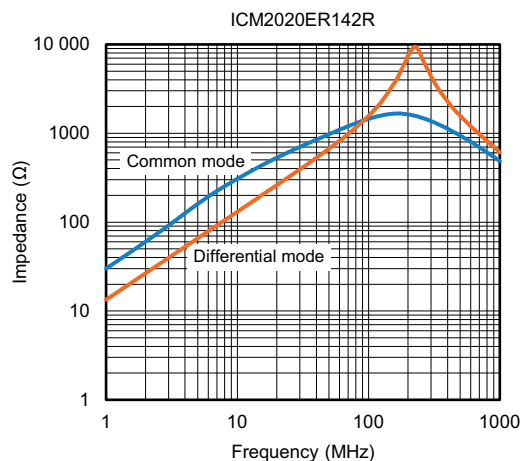
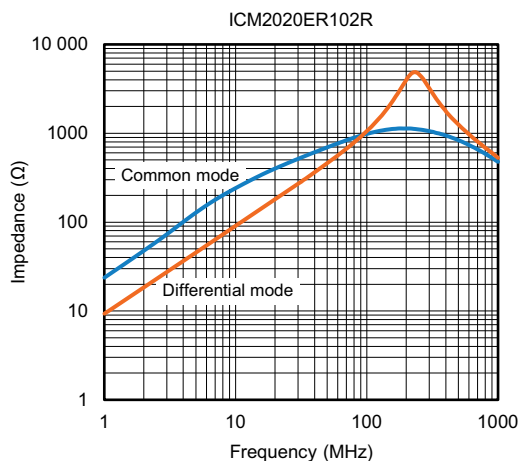
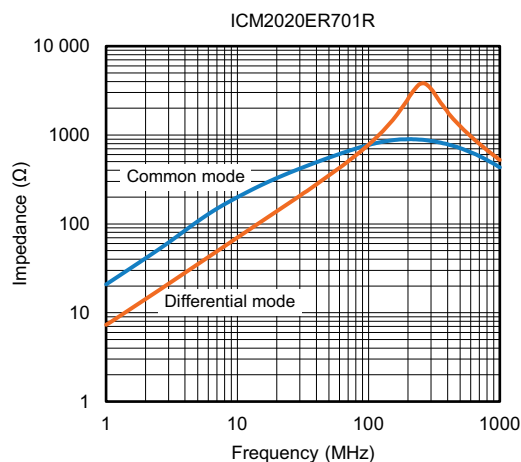
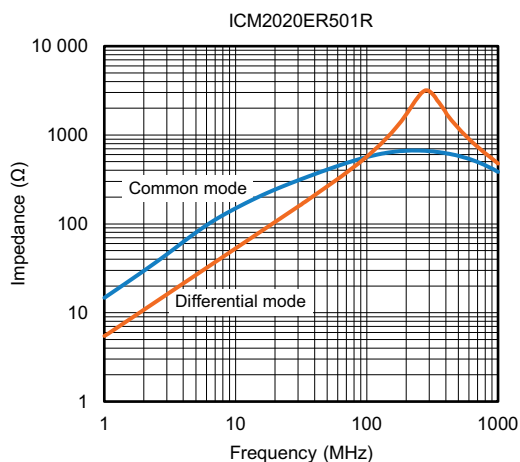
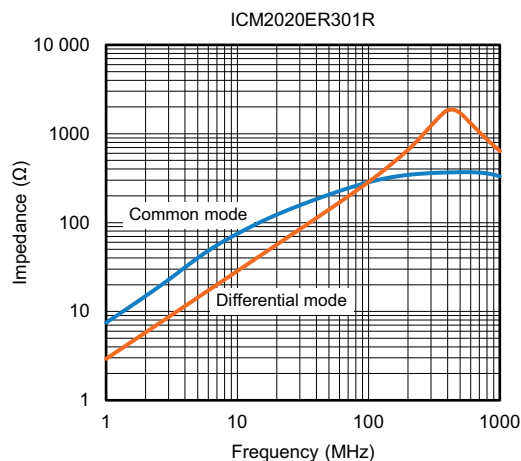
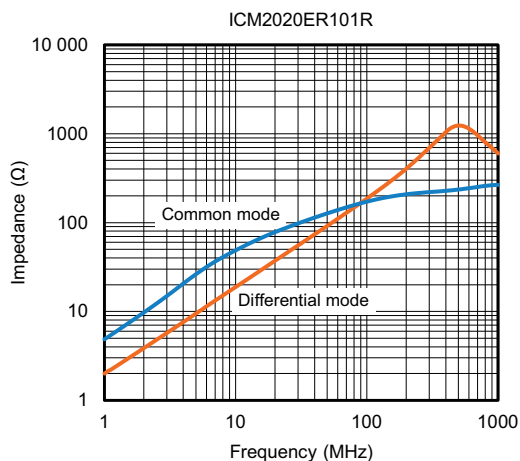


DC Resistance



Insulation Resistance



PERFORMANCE GRAPHS




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