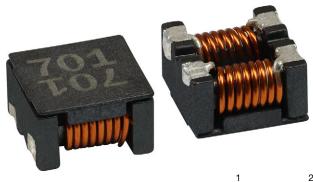
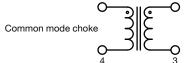


www.vishay.com

Automotive, High Current, Common Mode Choke





LINKS TO ADDITIONAL RESOURCES



FEATURES

- Wirewound ferrite common mode choke
- 5.5 mm x 5.5 mm x 3.5 mm SMD package
- AEC-Q200 qualified
- 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 for automotive
- LCD displays
- · Noise suppression and filtering
- Lighting drivers
- LED driver

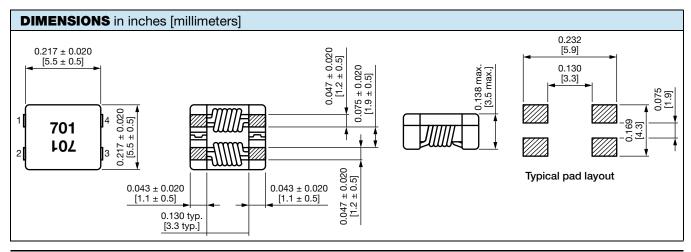
ELECTRICAL SPECIFICATIONS

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

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⁾
ICM2020ER101RA	50	100	6	8.5
ICM2020ER301RA	70	300	7.5	4.8
ICM2020ER501RA	150	500	10.5	4.5
ICM2020ER701RA	200	700	13	3.8
ICM2020ER102RA	250	1000	20	3.0
ICM2020ER142RA	300	1400	38	2.8

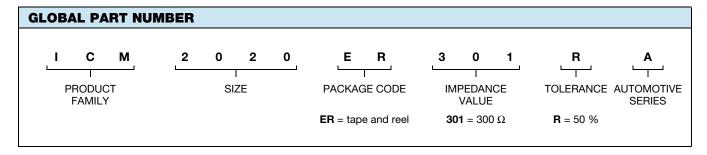
Notes

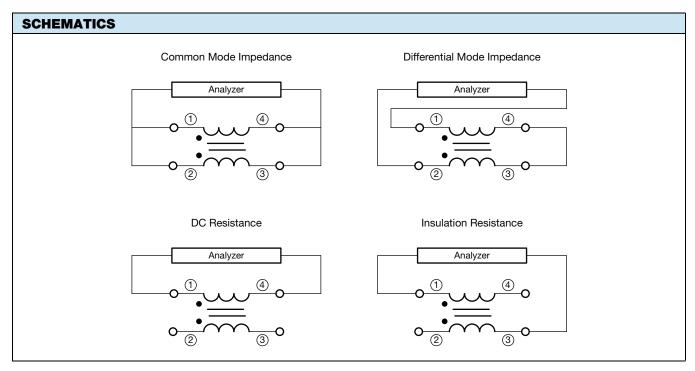
- All test data is referenced to 25 °C ambient
- Rated operating voltage = 80 V_{DC}
- Insulating resistance 10 M Ω min.
- Operating temperature range -40 °C to +125 °C
- Storage condition: -40 °C to +125 °C (on board); less than 40°C and < 60 % RH (in component packaging)
- (1) DC current (A) that will cause an approximate ΔT of 40 °C



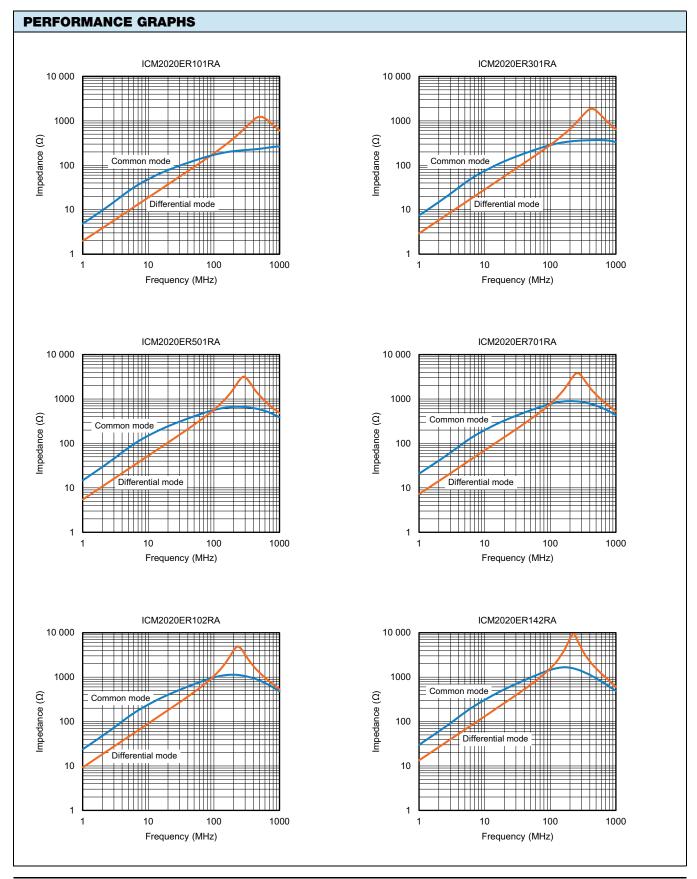
Revision: 04-Nov-2024 1 Document Number: 34648

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