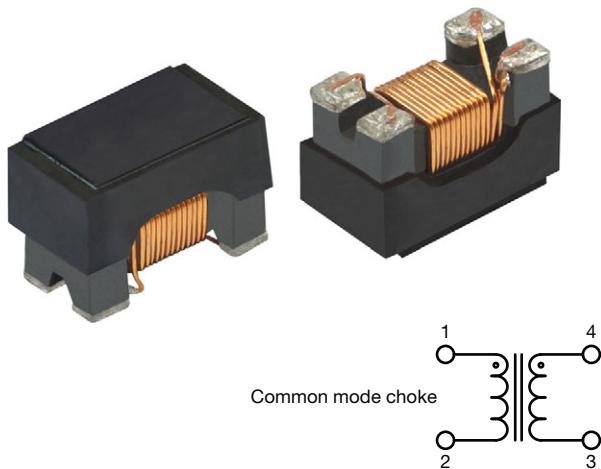


Surface-Mount Common Mode Choke



FEATURES

- Wirewound ferrite common mode choke
- 1.6 mm x 0.85 mm x 1.25 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

LINKS TO ADDITIONAL RESOURCES


[Product Page](#)

STANDARD ELECTRICAL SPECIFICATIONS

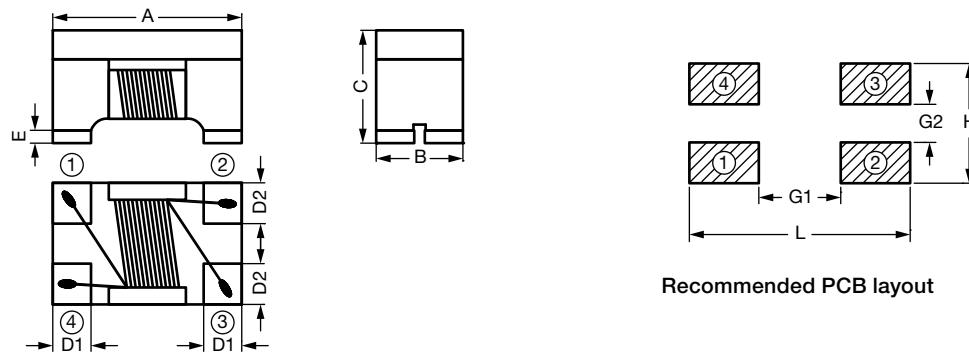
PART NUMBER	COMMON MODE IMPEDANCE, AT 10 MHz, TYP. (Ω)	COMMON MODE IMPEDANCE, AT 100 MHz, TYP. (Ω)	DCR MAX. 25 °C ($m\Omega$)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾
ICM0603ER220V	3.0	22	80	0.5
ICM0603ER450V	5.7	45	110	0.5
ICM0603ER900V	12.3	90	145	0.5
ICM0603ER121V	17.4	120	175	0.5
ICM0603ER181V	23.1	180	210	0.5
ICM0603ER251V	35.8	250	280	0.4

Notes

- All test data is referenced to 25 °C ambient
- Rated operating voltage = 50 V_{DC}
- Rated dielectric withstand voltage = 125 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

DIMENSIONS in inches [millimeters]



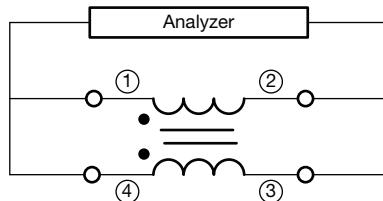
A	B	C	D1	D2	E	L	H	G1	G2
0.063 ± 0.006 [1.60 ± 0.15]	0.033 ± 0.006 [0.85 ± 0.15]	0.043 ± 0.006 [1.10 ± 0.15]	0.012 typ. [0.30 typ.]	0.012 typ. [0.30 typ.]	0.001 min. [0.03 min.]	0.083 ref. [2.10 ref.]	0.039 ref. [1.00 ref.]	0.028 ref. [0.70 ref.]	0.012 ref. [0.30 ref.]

GLOBAL PART NUMBER

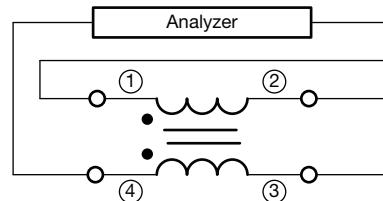
I	C	M	0	6	0	3	E	R	2	2	0	V
PRODUCT FAMILY			SIZE				PACKAGE CODE		IMPEDANCE VALUE			TOLERANCE
							ER = tape and reel		220 = 22 Ω			V = 25 %

SCHEMATICS

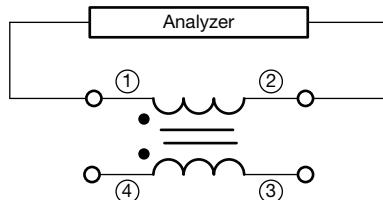
Common Mode Impedance



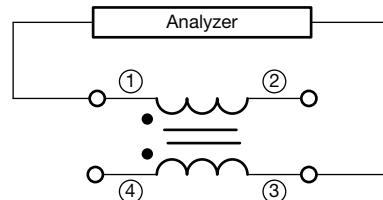
Differential Mode Impedance

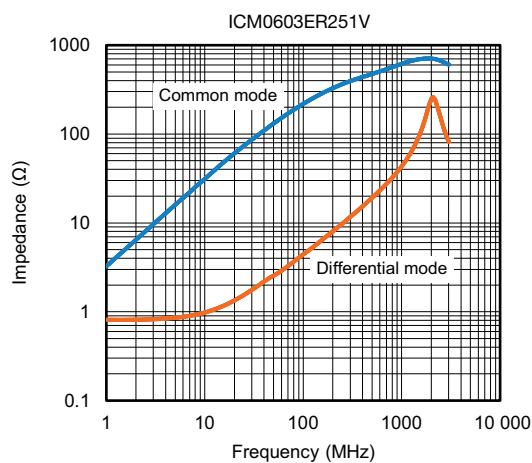
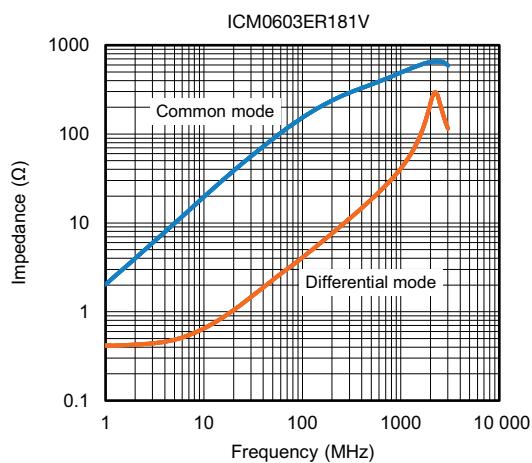
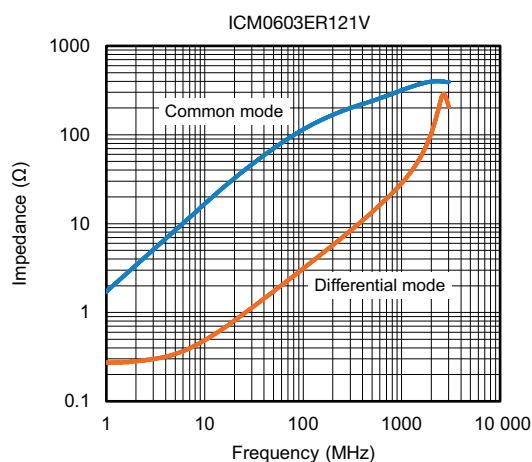
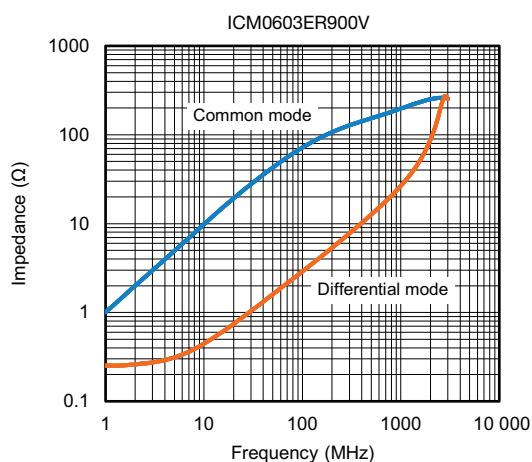
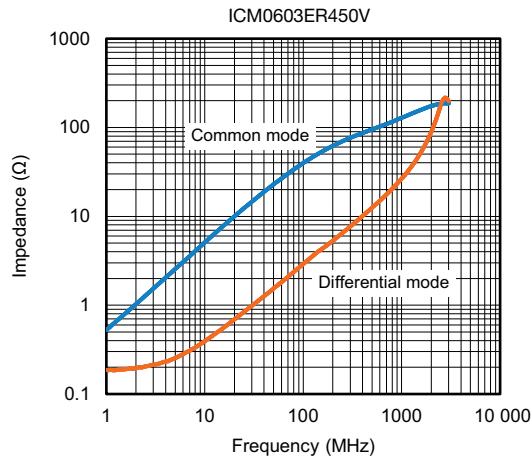
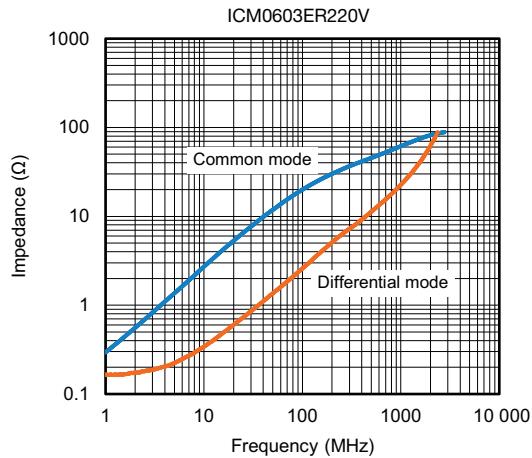


DC Resistance



Insulation Resistance



PERFORMANCE GRAPHS


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