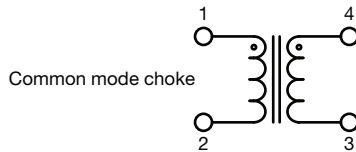
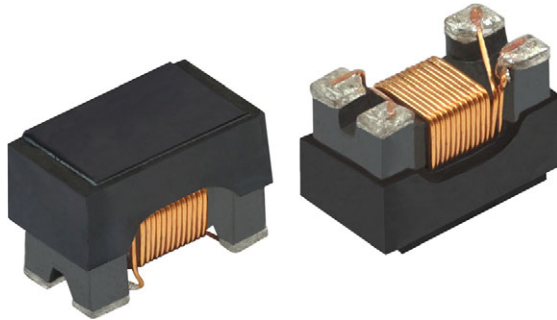


## Surface-Mount Common Mode Choke



### 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](http://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. ( $\Omega$ )	COMMON MODE IMPEDANCE, AT 100 MHz, TYP. ( $\Omega$ )	DCR MAX. 25 °C (m $\Omega$ )	HEAT RATING CURRENT DC TYP. (A) <sup>(1)</sup>
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

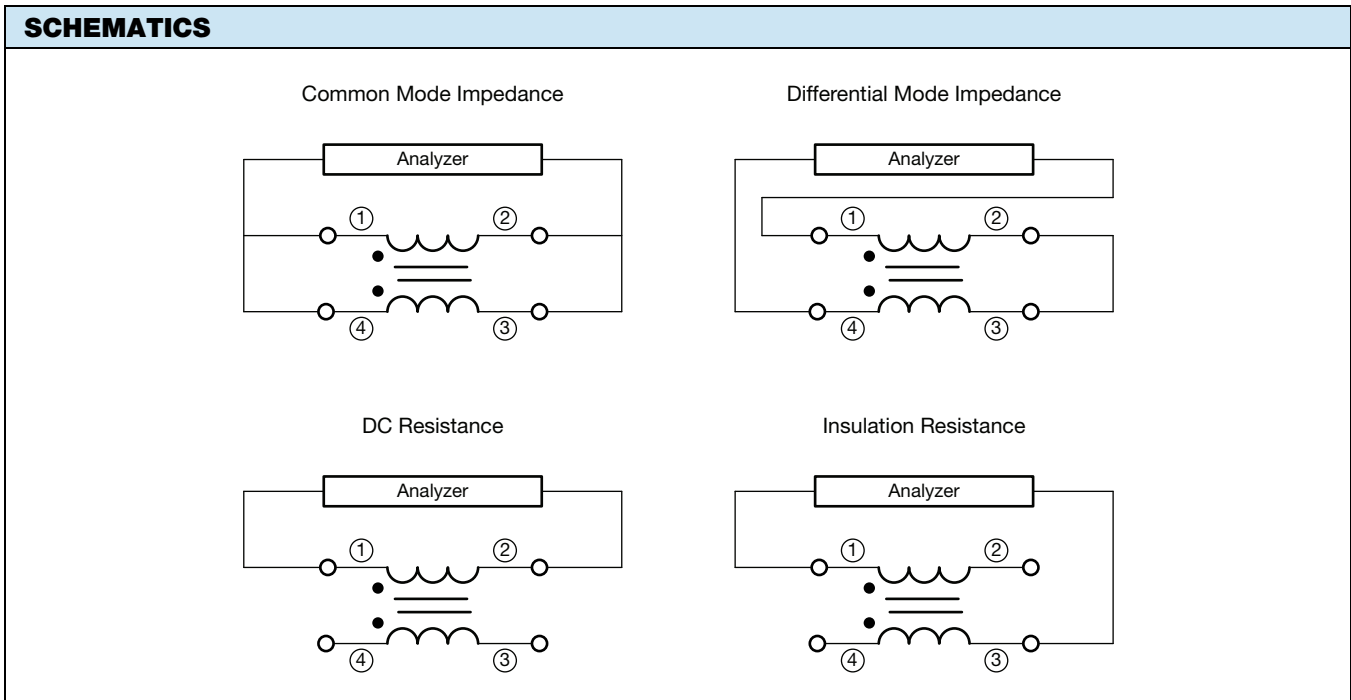
#### Notes

- All test data is referenced to 25 °C ambient
  - Rated operating voltage = 50 V<sub>DC</sub>
  - Rated dielectric withstanding voltage = 125 V<sub>DC</sub>
  - Insulating resistance 10 M $\Omega$  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)
- <sup>(1)</sup> DC current (A) that will cause an approximate  $\Delta T$  of 40 °C

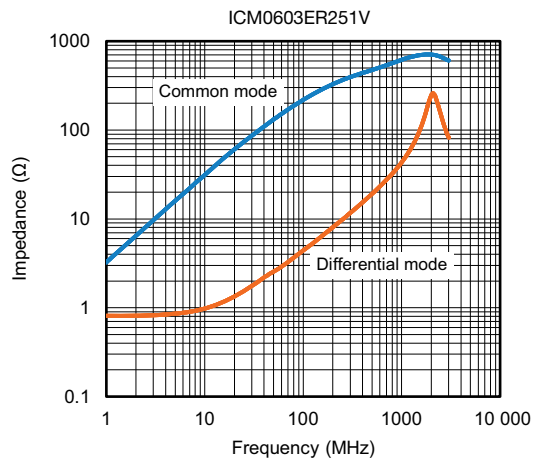
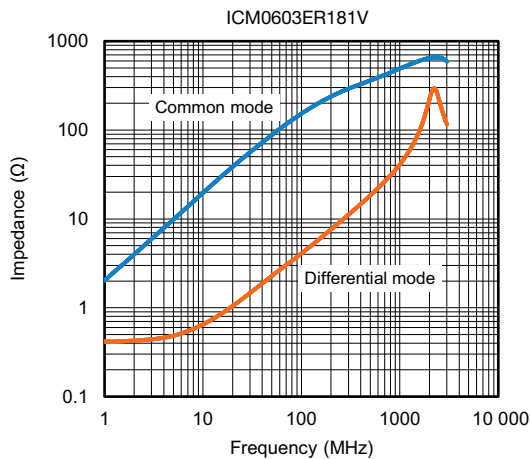
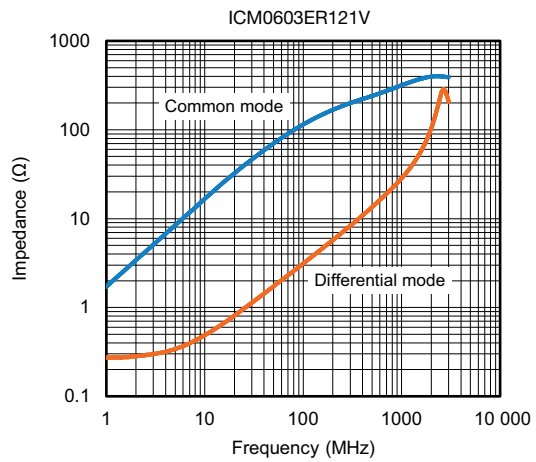
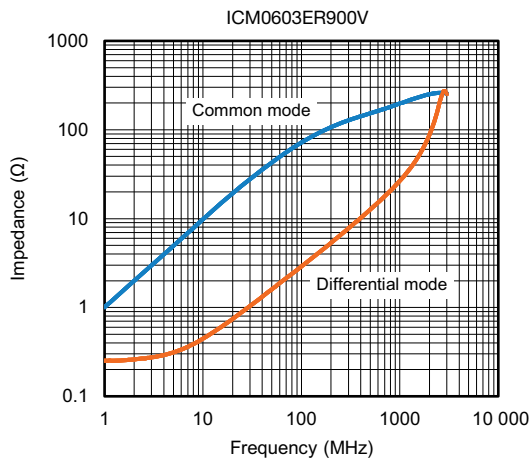
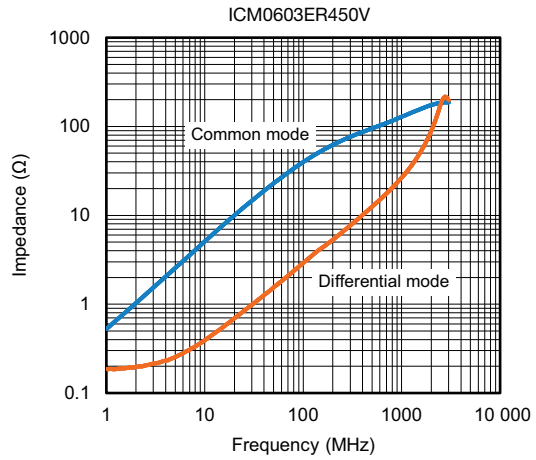
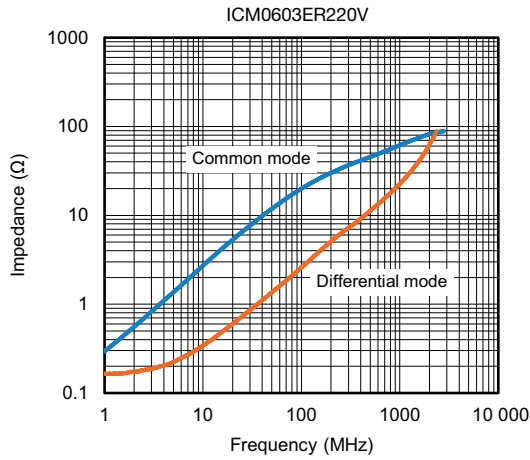
### DIMENSIONS in inches [millimeters]

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 %



**PERFORMANCE GRAPHS**





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