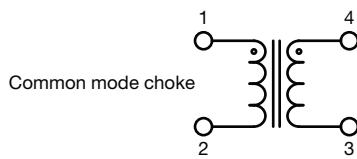
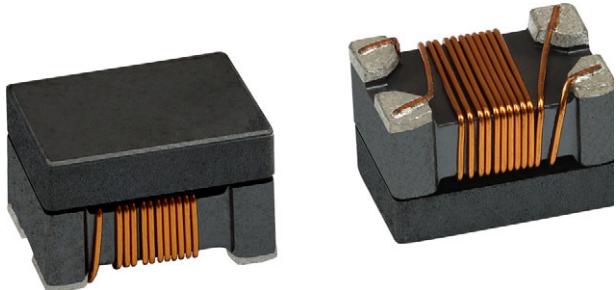


Surface-Mount Common Mode Choke



FEATURES

- Wirewound ferrite common mode choke
- 4.5 mm x 3.2 mm x 2.8 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

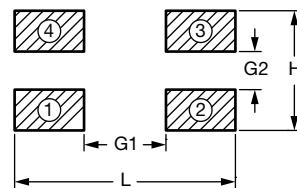
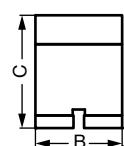
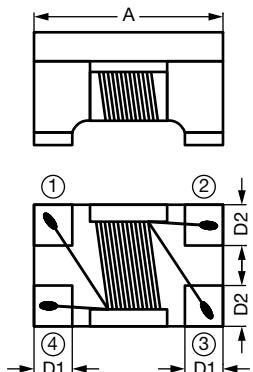

[Product Page](#)

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⁾
ICM1812ER800V	10	80	50	3
ICM1812ER900V	18	90	50	3
ICM1812ER121V	30	120	50	3
ICM1812ER201V	35	200	100	1.5
ICM1812ER601V	60	600	240	1.5
ICM1812ER801V	84	800	240	1

Notes

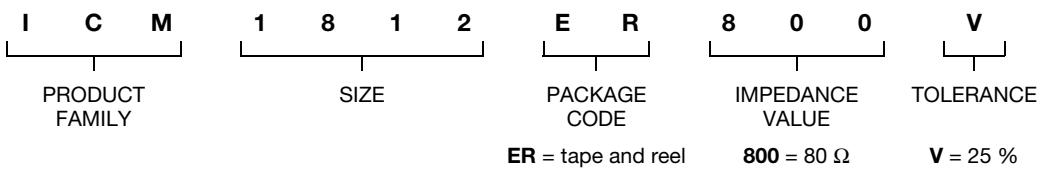
- All test data is referenced to 25 °C ambient
- Rated operating voltage = 50 V_{DC}
- Rated dielectric withstanding voltage = 125 V_{DC}
- Insulating resistance 10 M Ω min.
- Operating temperature range -40 °C to +125 °C
- Storage condition: -40 °C to +125 °C and < 85 % RH (on board); less than 40°C and < 60 % RH (in component packaging)

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

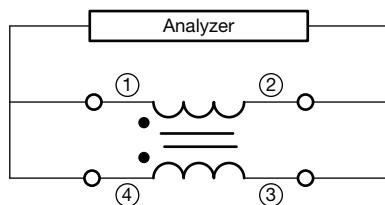
DIMENSIONS in inches [millimeters]


Recommended PCB layout

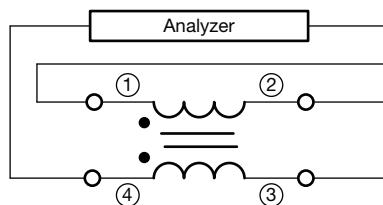
A	B	C	D1	D2	L	G1	G2	H
0.177 ± 0.008 [4.5 ± 0.2]	0.126 ± 0.008 [3.2 ± 0.2]	0.110 ± 0.008 [2.8 ± 0.2]	0.039 ± 0.004 [1.0 ± 0.1]	0.047 ± 0.004 [1.2 ± 0.1]	0.189 ref. [4.8 ref.]	0.098 ref. [2.5 ref.]	0.028 ref. [0.7 ref.]	0.150 ref. [3.8 ref.]

GLOBAL PART NUMBER

SCHEMATICS

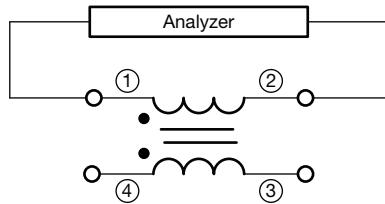
Common Mode Impedance



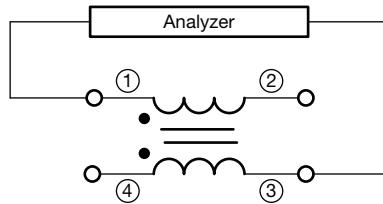
Differential Mode Impedance

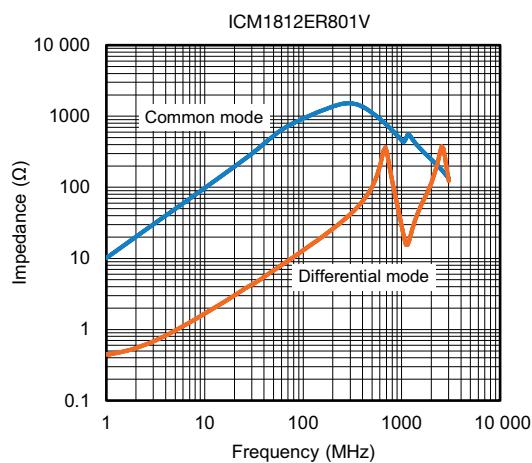
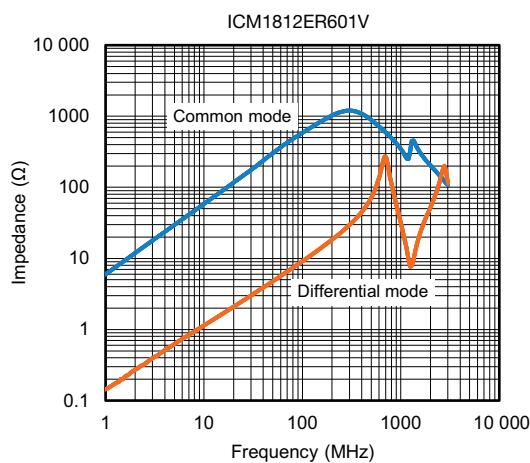
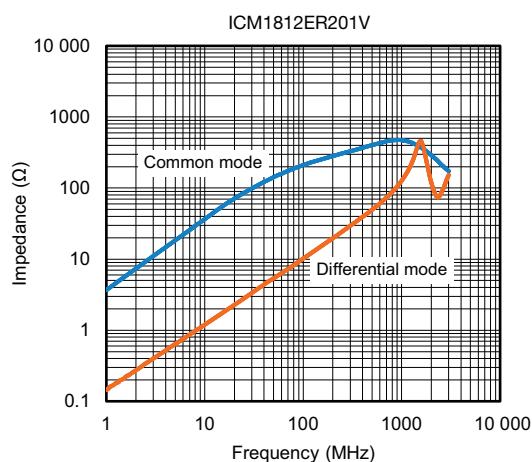
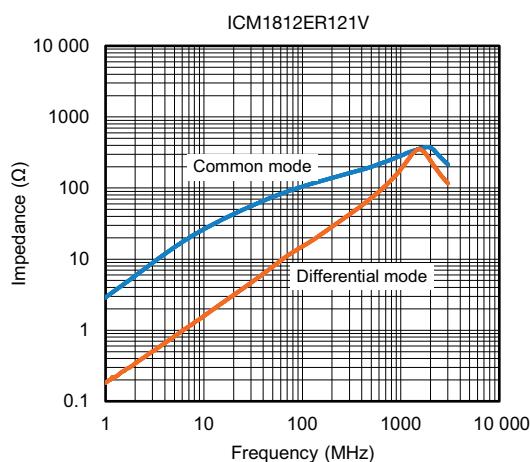
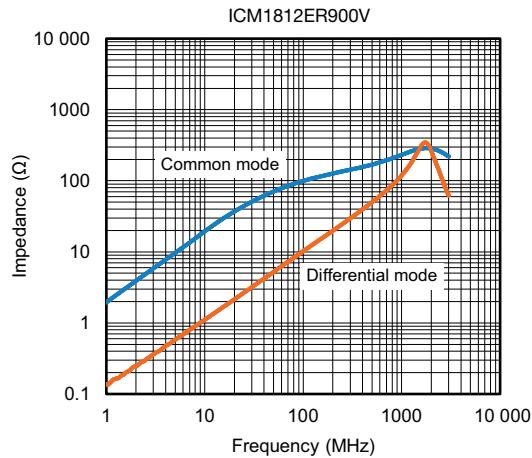
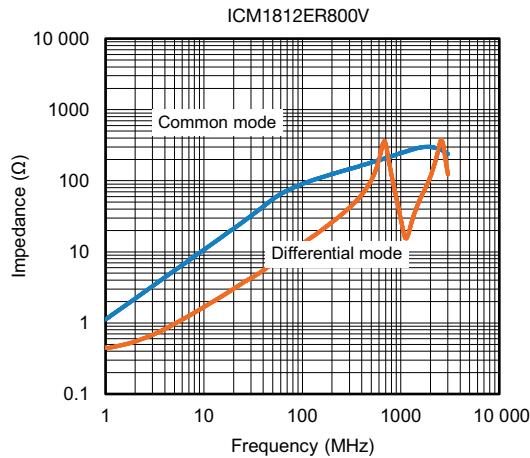


DC Resistance



Insulation Resistance



PERFORMANCE GRAPHS


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