

High Impedance Surface-Mount Common Mode Choke



FEATURES

- High impedance ferrite with precision winding
- 4.5 mm x 3.2 mm x 3.0 mm SMD package
- Operating temperature: -55 °C to +150 °C
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

LINKS TO ADDITIONAL RESOURCES


[Product Page](#)

ELECTRICAL SPECIFICATIONS

Resistance to solder heat:

260 °C for 10 s (3 times max. through reflow)

APPLICATIONS

- DC/DC power supplies
- LCD displays
- Noise suppression and filtering
- Ethernet
- Battery powered devices

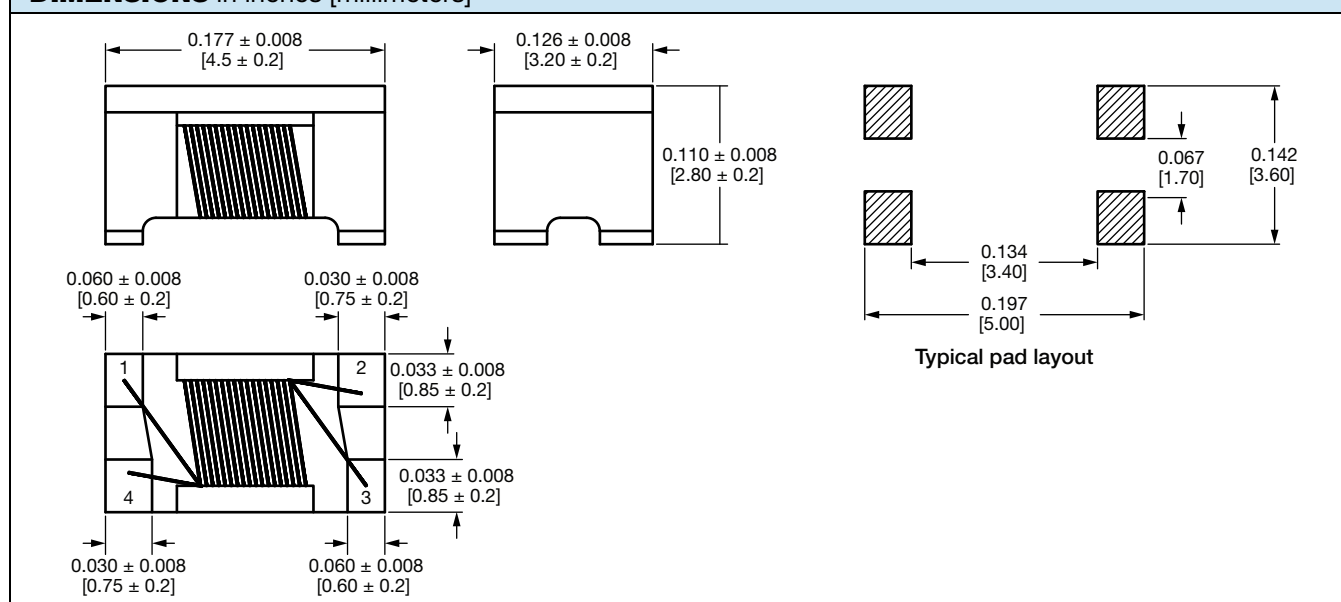
STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	COMMON MODE IMPEDANCE AT 10 MHz, TYP. (Ω)	COMMON MODE IMPEDANCE AT 100 MHz, TYP. (Ω)	INDUCTANCE +50 % / - 30 %, 0.1 V, 100 kHz (μH)	DCR MAX. 25 °C (Ω)	HEAT RATING CURRENT DC TYP. (mA) ⁽¹⁾
IFLN1812CZER601N	600	4000	11	0.6	360
IFLN1812CZER122N	1200	8200	22	1	310
IFLN1812CZER282N	2800	6000	51	1	230
IFLN1812CZER582N	5800	5200	100	2	200

Notes

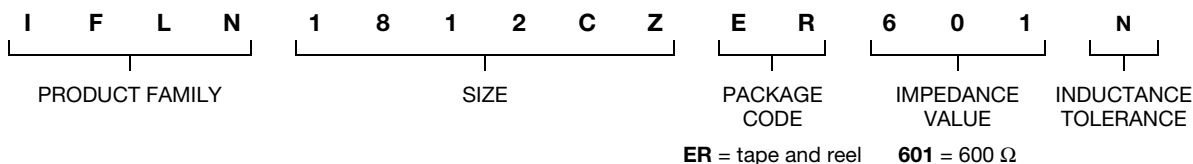
- All test data is referenced to 25 °C ambient
 - Rated operating voltage = 50 V_{DC}
 - Insulating resistance 10 MΩ min.
 - Operating temperature range -55 °C to +150 °C
 - Storage condition: -55 °C to +150 °C (on board); less than 40 °C and < 60 % RH (in component packaging)
- ⁽¹⁾ DC current (A) that will cause ΔT max. of +20 °C

DIMENSIONS in inches [millimeters]



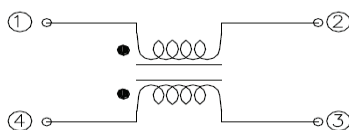


GLOBAL PART NUMBER



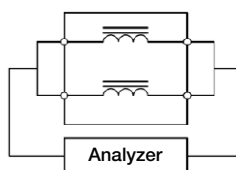
SCHEMATICS

Schematic

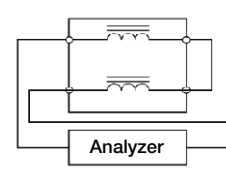


Measuring Circuits

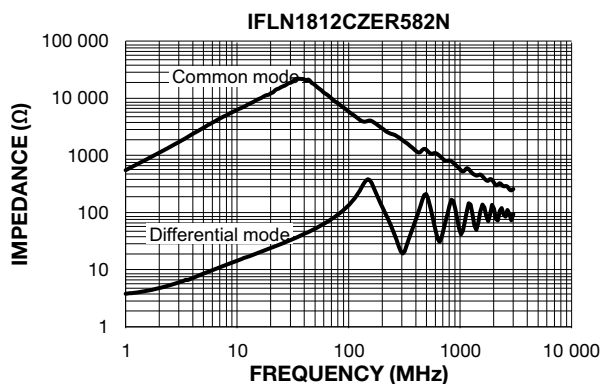
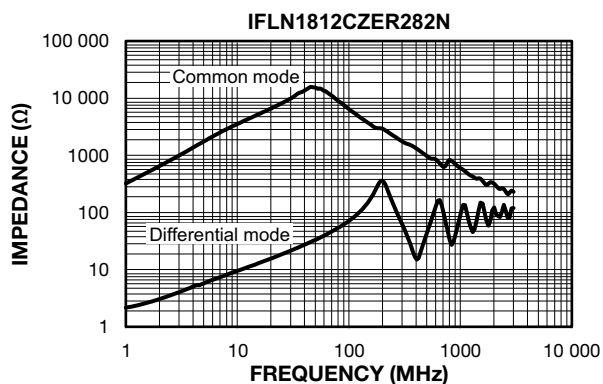
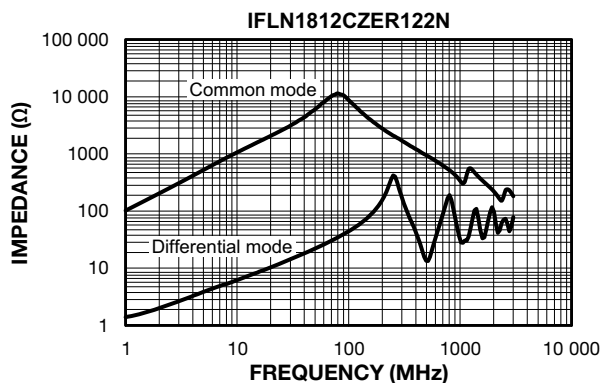
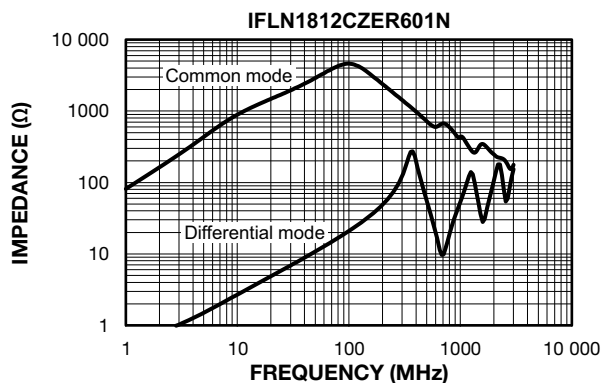
Common mode



Differential mode



PERFORMANCE GRAPHS





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