

## 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](http://www.vishay.com/doc?99912)



### LINKS TO ADDITIONAL RESOURCES



### 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

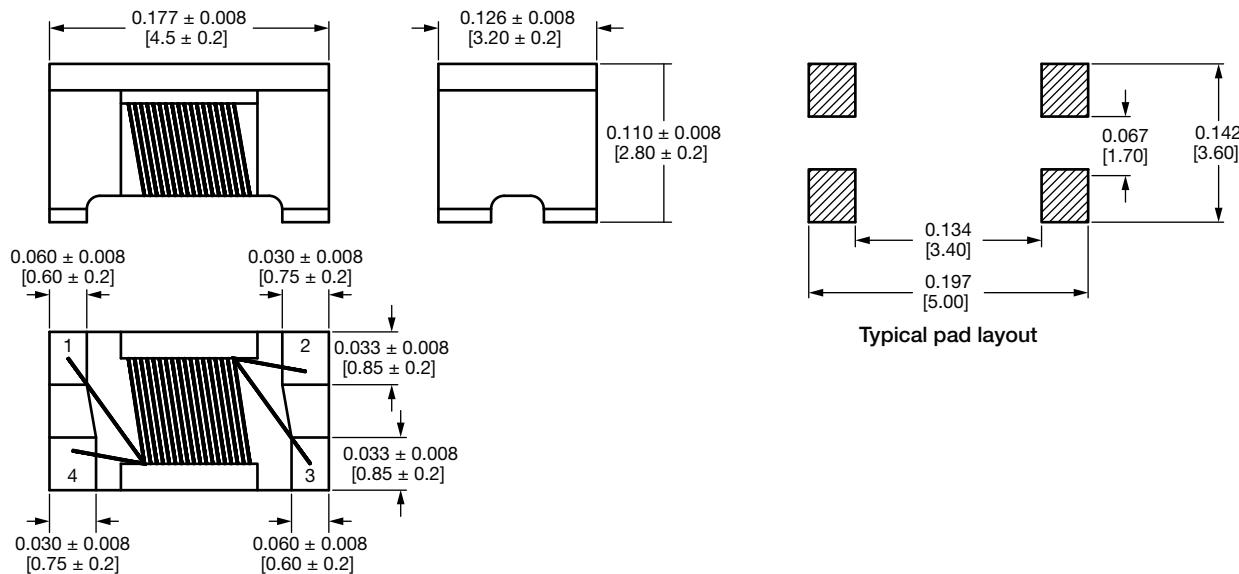
PART NUMBER	COMMON MODE IMPEDANCE AT 10 MHz, TYP. (Ω)	COMMON MODE IMPEDANCE AT 100 MHz, TYP. (Ω)	INDUCTANCE +50 % / -30 %, 0.1 V, 100 kHz (μH)	DCR MAX. 25 °C (Ω)	HEAT RATING CURRENT DC TYP. (mA) <sup>(1)</sup>
IFLN1812CZER601N	600	4000	11	0.6	360
IFLN1812CZER122N	1200	8200	22	1	310
IFLN1812CZER282N	2800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

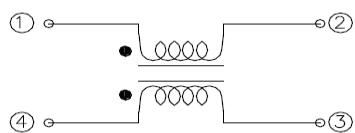
<sup>(1)</sup> DC current (A) that will cause ΔT max. of +20 °C

### DIMENSIONS in inches [millimeters]

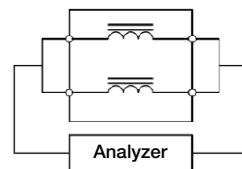


**GLOBAL PART NUMBER**

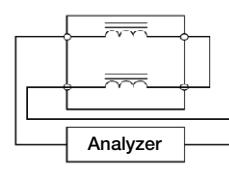
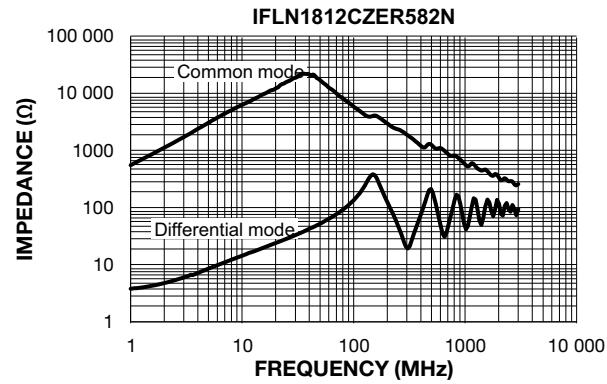
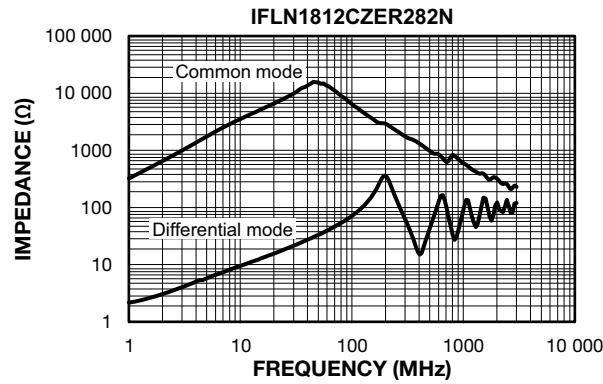
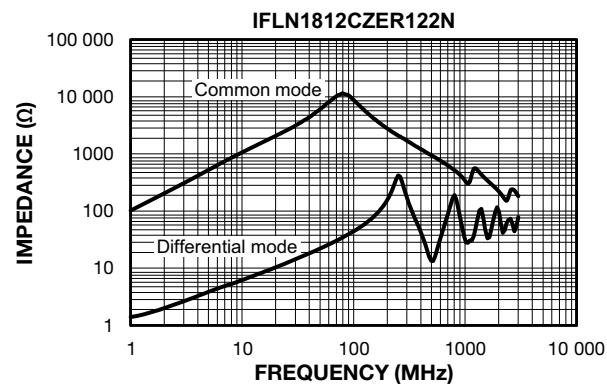
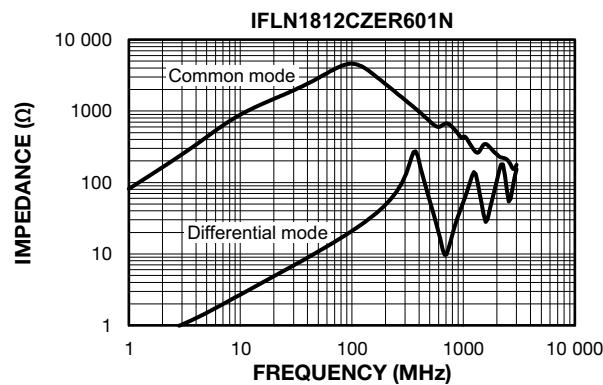
I	F	L	N	1	8	1	2	C	Z	E	R	6	0	1	N
PRODUCT FAMILY				SIZE				PACKAGE CODE		IMPEDANCE VALUE		INDUCTANCE TOLERANCE			
ER = tape and reel    601 = 600 $\Omega$															

**SCHEMATICS**
**Schematic**

**Measuring Circuits**

Common mode



Differential mode


**PERFORMANCE GRAPHS**


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