

# Automotive 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
- AEC-Q200 qualified
- Material categorization:  
for definitions of compliance please see  
[www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)

AUTOMOTIVE  
GRADE

**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

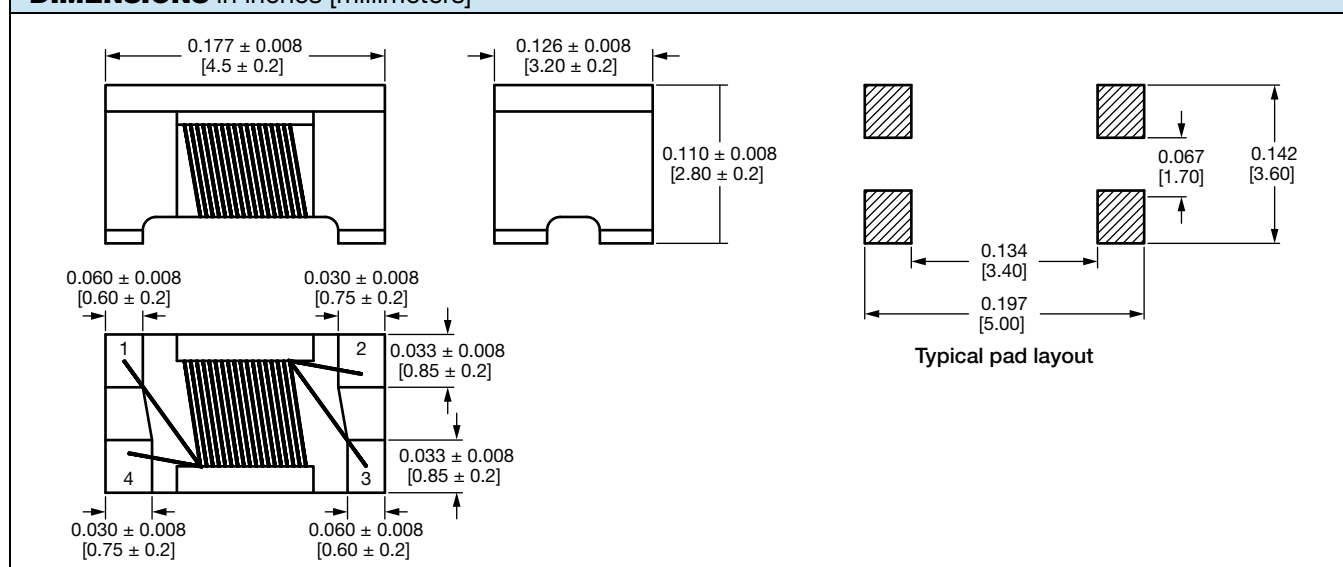
## STANDARD ELECTRICAL SPECIFICATIONS

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) <sup>(1)</sup>
IFLN1812CZER601NA	600	4000	11	0.6	360
IFLN1812CZER122NA	1200	8200	22	1	310
IFLN1812CZER282NA	2800	6000	51	1	230
IFLN1812CZER582NA	5800	5200	100	2	200

### Notes

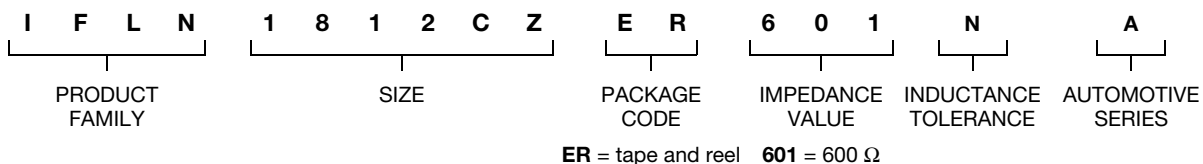
- All test data is referenced to 25 °C ambient
  - Rated operating voltage = 50 V<sub>DC</sub>
  - Insulating resistance 10 MΩ min.
  - Operating temperature range -55 °C to +150 °C
  - Storage condition: -55 °C to +150 °C (on board); less than 40°C and < 60 % RH (in component packaging)
- <sup>(1)</sup>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

## DIMENSIONS in inches [millimeters]



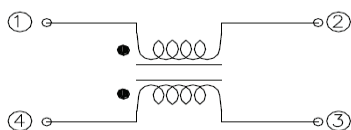


## GLOBAL PART NUMBER



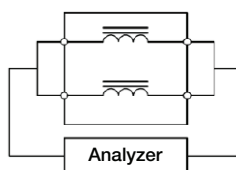
## SCHEMATICS

### Schematic

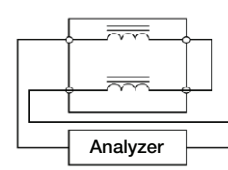


### Measuring Circuits

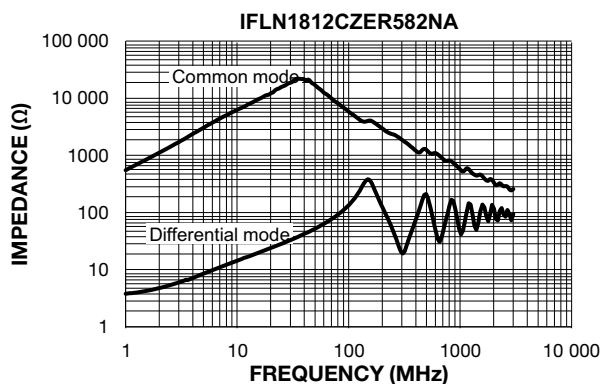
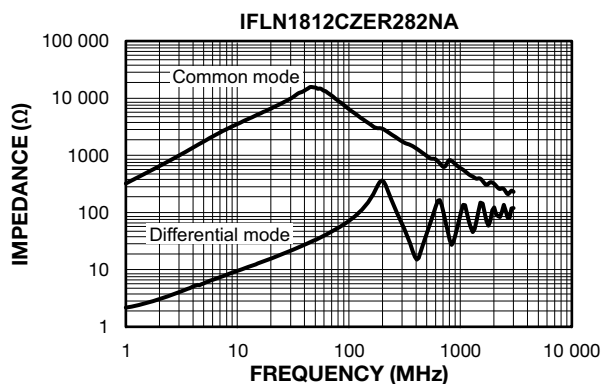
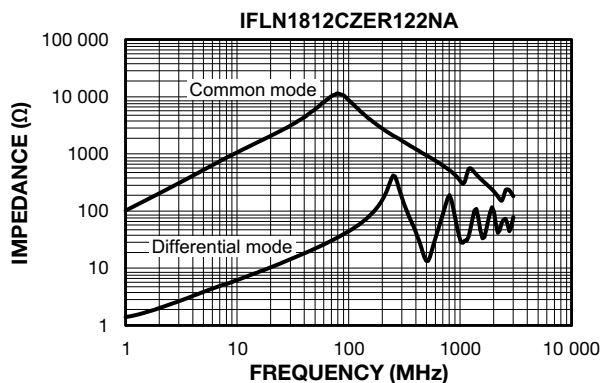
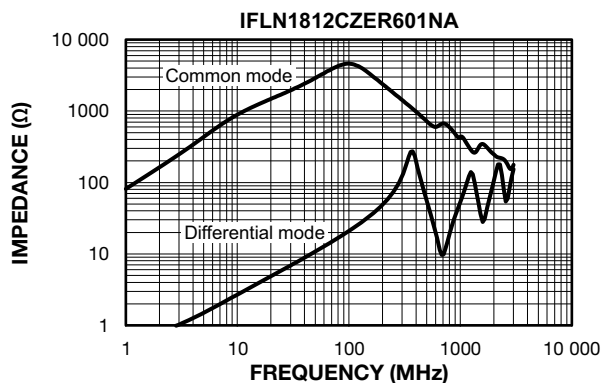
#### Common mode



#### Differential mode



## PERFORMANCE GRAPHS





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