

## Automotive High Impedance Surface-Mount Common Mode Choke



### LINKS TO ADDITIONAL RESOURCES



### ELECTRICAL SPECIFICATIONS

Resistance to solder heat:  
260 °C for 10 s (3 times max. through reflow)

### FEATURES

- High impedance ferrite with precision winding
- 3.2 mm x 2.5 mm x 2.5 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)



**RoHS**  
COMPLIANT  
**HALOGEN**  
**FREE**  
**GREEN**  
(S-2008)

### APPLICATIONS

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

### STANDARD ELECTRICAL SPECIFICATIONS

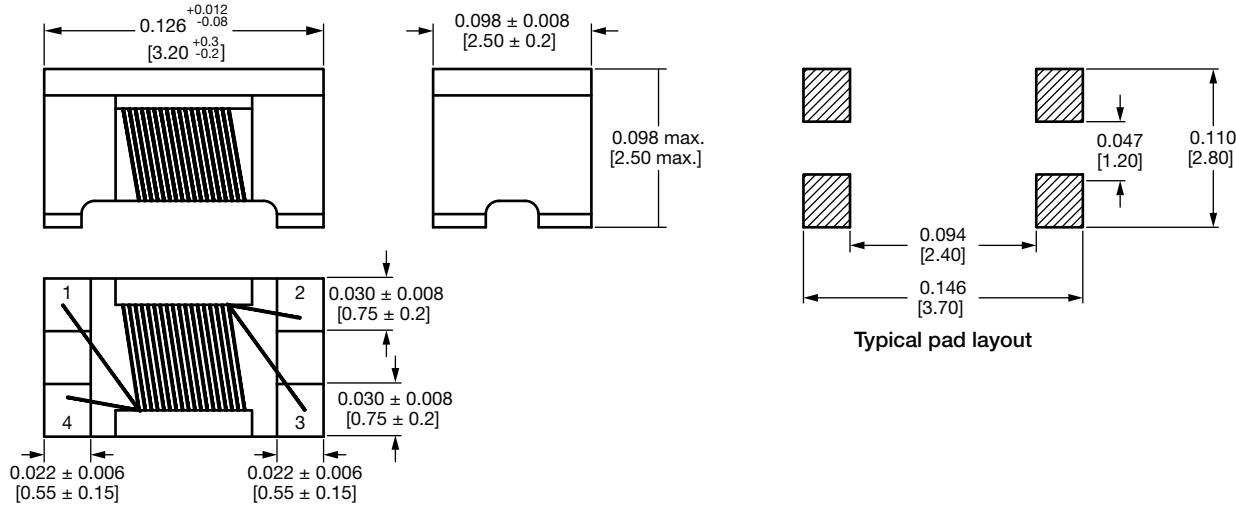
PART NUMBER	COMMON MODE IMPEDANCE AT 10 MHz, TYP. (Ω)	COMMON MODE IMPEDANCE AT 100 MHz, TYP. (Ω)	INDUCTANCE +50 % / -30 %, 0.1 V, 100 kHz (μH)	DCR MAX. 25 °C (Ω)	HEAT RATING CURRENT DC TYP. (mA) <sup>(1)</sup>
IFLN1210BEER551NA	550	2200	11	0.4	300
IFLN1210BEER112NA	1100	4100	22	0.5	250
IFLN1210BEER262NA	2600	8600	51	0.7	200
IFLN1210BEER512NA	5100	11 000	100	1.5	150

#### Notes

- All test data is referenced to 25 °C ambient
- Rated operating voltage = 80 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)

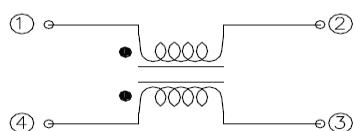
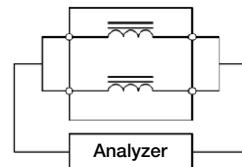
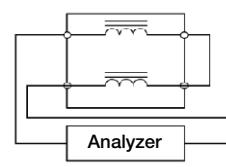
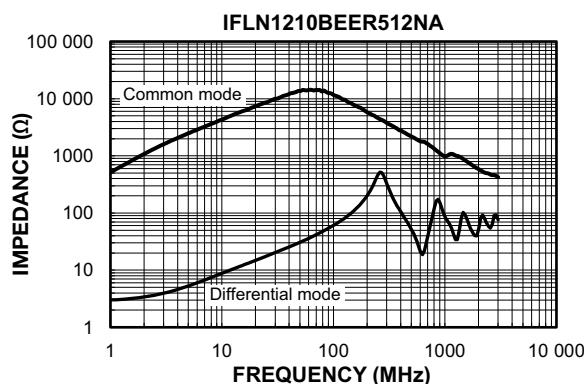
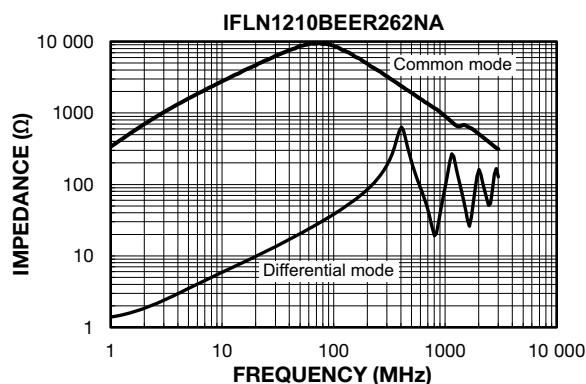
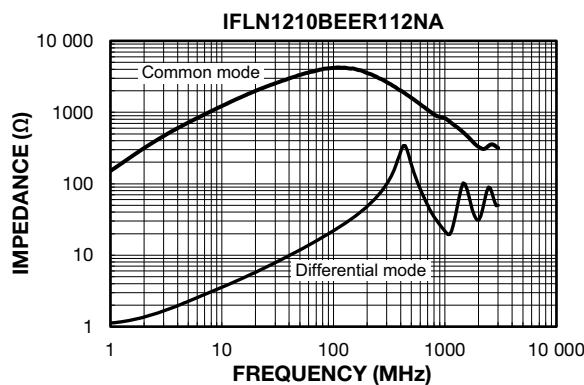
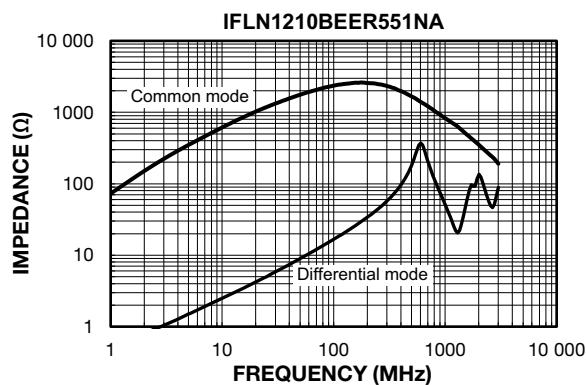
<sup>(1)</sup> DC current (A) that will cause ΔT max. of +20 °C

### DIMENSIONS in inches [millimeters]



**GLOBAL PART NUMBER**

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

**SCHEMATICS**
**Schematic**

**Measuring Circuits**
**Common mode**

**Differential mode**

**PERFORMANCE GRAPHS**


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