

WSEN1608EE NS Power Inductor (multilayer)

■ **Scope**

This specification applies to 1.6mm x 0.8mm x 0.55 mm size, fixed multilayer chip inductor for power line.

100% lead (Pb) free meet RoHS standard

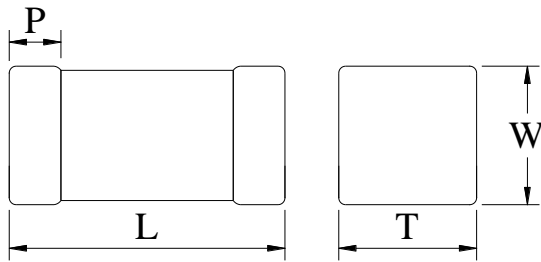
■ **Application**

DC/DC converter for CPU in Notebook PC

Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..

Thin type on-board power supply module for exchanger

■ **Outline Dimensions**

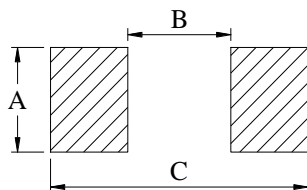


Code	Dimensions
L	1.6 ± 0.15
W	0.8 ± 0.15
T	0.55 Max
P	0.3 ± 0.2

Unit : mm

■ **Recommend Land Pattern Dimensions**

The customer shall determine the land dimensions shown below after confirming and safety.



A	0.8
B	0.8
C	2.0

Unit : mm

■ Specifications

Part Number	Inductance (μ H)	DCR ($m\Omega$)		Self-Resonance Frequency (MHz)	Heat Rating Current DC Amps. Idc (A)	
		Typ.	Max.		Typ.	Max.
WSEN1608EE-R47NS	0.47	120	150	200	1.65	1.50
WSEN1608EE-1R0NS	1.0	170	210	150	1.43	1.30
WSEN1608EE-1R5NS	1.5	200	240	130	1.32	1.20
WSEN1608EE-1R8NS	1.8	220	265	100	1.21	1.10
WSEN1608EE-2R2NS	2.2	220	265	90	1.21	1.10

* : If you require another part number please contact with us.

** : Inductance Tolerance $\pm 30\%$

Note 1. : All test data is referenced to 25°C ambient.

Note 2. : Test Condition:1MHz, 0.5Vrms

Note 3. : Idc : DC current (A) that will cause an approximate ΔT of 40°C

Note 4. : Operating Temperature Range -55°C to + 125°C

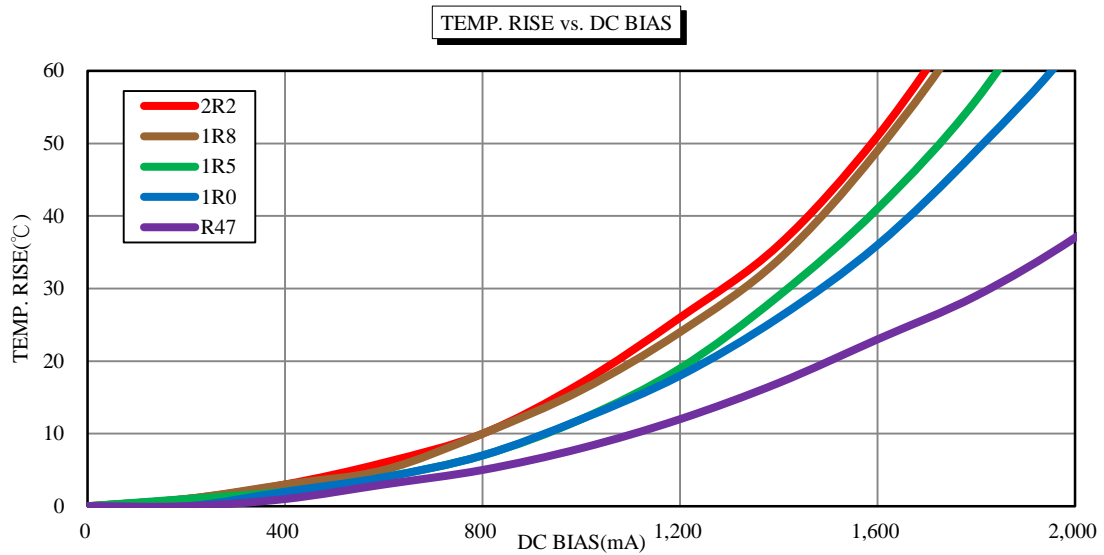
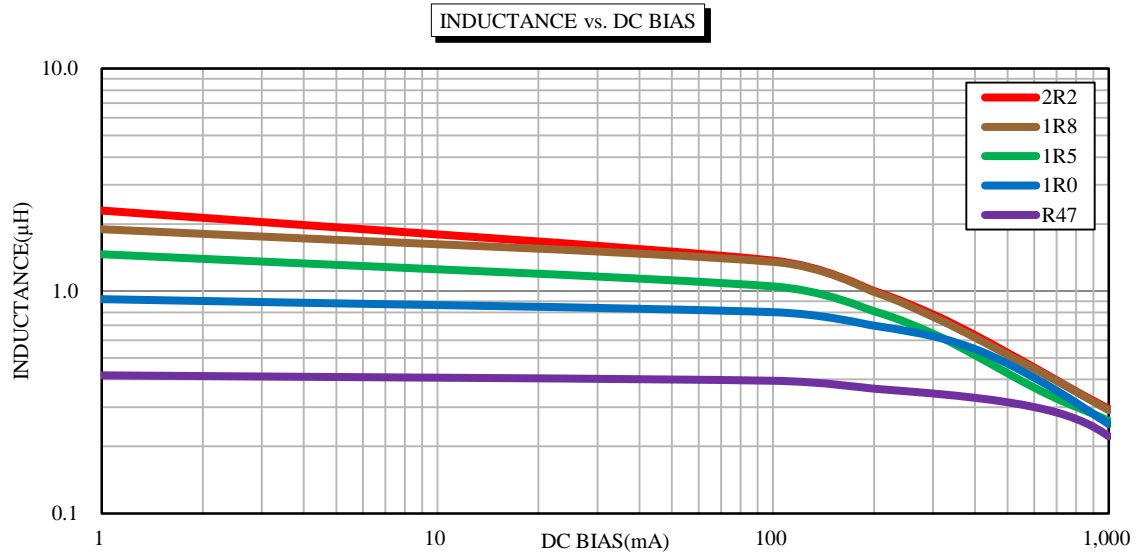
Note 5. : The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

Current Characteristic

Test Instruments

Agilent 4284A LCR Meter

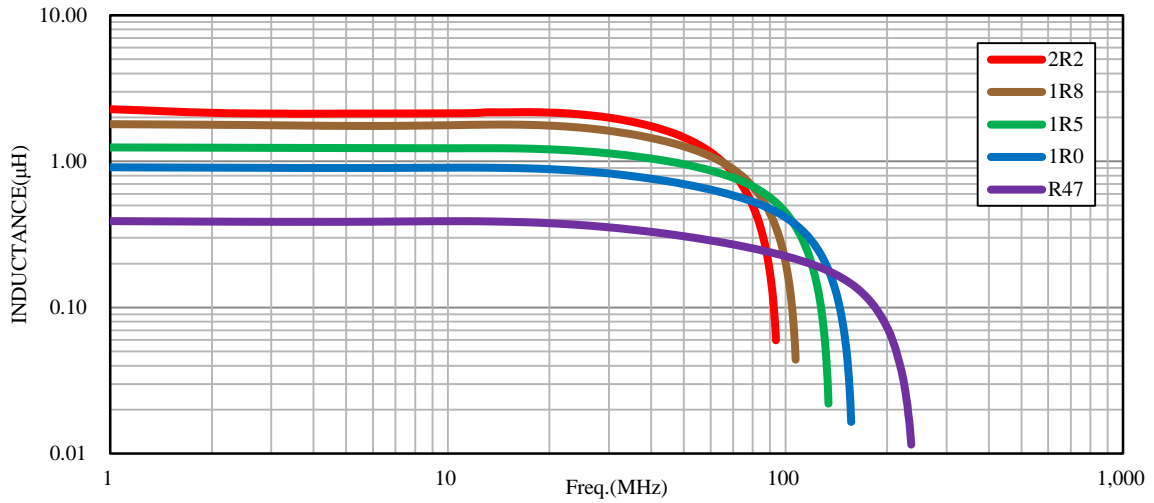
Agilent 42841A Bias Current Source



Test Instruments

Agilent 4291B Impedance Analyzer

INDUCTANCE vs. Freq.



IMPEDANCE vs. Freq.

