

**WI Series**  
Wire Wound Inductor  
Size 1608



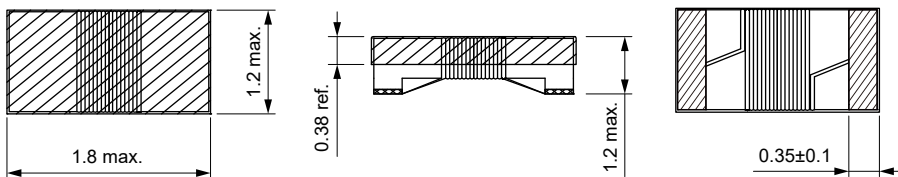
**FEATURES**

- Ferrite core wire wound construction
- High Reliability due to wire wound type construction
- Small footprint as well as low profile
- Application for DC power line
- Operating temperature-40~+125 °C (Including self - temperature rise)
- Quantity: 3000 pcs

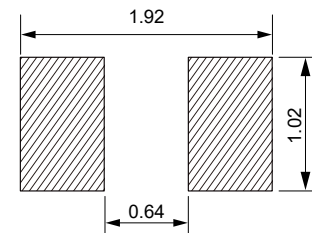
**APPLICATION**

- Filtering of supply voltages, coupling, decoupling
- DC/DC converters, switch-mode power supplies

**Dimensions: [mm]**



**Land Pattern: [mm]**



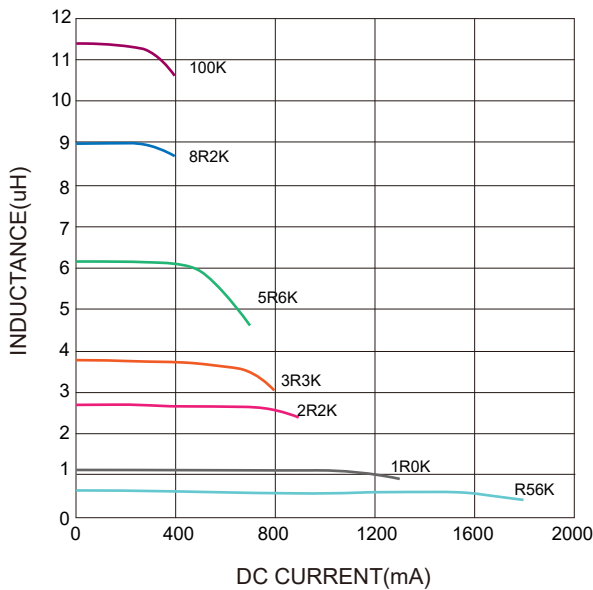
**Electrical Properties:**

Part No	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q Min.	Test Frequency (MHz)	Temperature Rise Current Max. (mA)	DC Resistance Max. (Ω)	SRF Min. (MHz)
WI1608-47NK	0.047	±10%	0.5V/7.96M	10	7.96	1400	0.075	1500
WI1608-R10K	0.10	±10%	0.5V/7.96M	10	7.96	1400	0.13	1150
WI1608-R12K	0.12	±10%	0.5V/7.96M	10	7.96	1400	0.15	1100
WI1608-R15K	0.15	±10%	0.5V/7.96M	10	7.96	1300	0.15	1050
WI1608-R18K	0.18	±10%	0.5V/7.96M	10	7.96	1300	0.15	950
WI1608-R22K	0.22	±10%	0.5V/7.96M	10	7.96	950	0.15	800
WI1608-R24K	0.24	±10%	0.5V/7.96M	10	7.96	620	0.31	800
WI1608-R27K	0.27	±10%	0.5V/7.96M	10	7.96	710	0.20	775
WI1608-R33K	0.33	±10%	0.5V/7.96M	10	7.96	620	0.35	725
WI1608-R39K	0.39	±10%	0.5V/7.96M	10	7.96	600	0.39	620
WI1608-R47K	0.47	±10%	0.5V/7.96M	10	7.96	570	0.43	540

Part No	Inductance (uH)	Tolerance	Test Frequency (Hz)	Q Min.	Test Frequency (MHz)	Temperature Rise Current Max. (mA)	DC Resistance Max. (Ω)	SRF Min. (MHz)
WI1608-R56K	0.56	±10%	0.5V/7.96M	10	7.96	550	0.47	525
WI1608-R68K	0.68	±10%	0.5V/7.96M	10	7.96	470	0.52	460
WI1608-R82K	0.82	±10%	0.5V/7.96M	10	7.96	400	0.69	410
WI1608-1R0K	1.0	±10%	0.5V/7.96M	10	7.96	400	0.81	190
WI1608-1R2K	1.2	±10%	0.5V/7.96M	10	7.96	370	0.87	160
WI1608-1R5K	1.5	±10%	0.5V/7.96M	10	7.96	350	0.96	100
WI1608-1R8K	1.8	±10%	0.5V/7.96M	10	7.96	350	1.10	80
WI1608-2R2K	2.2	±10%	0.5V/7.96M	10	7.96	320	1.20	68
WI1608-3R3K	3.3	±10%	0.5V/7.96M	10	7.96	280	1.50	42
WI1608-3R9K	3.9	±10%	0.5V/7.96M	10	7.96	280	1.50	40
WI1608-4R7K	4.7	±10%	0.5V/7.96M	10	7.96	260	2.10	34
WI1608-5R6K	5.6	±10%	0.5V/7.96M	10	7.96	240	2.60	32
WI1608-6R8K	6.8	±10%	0.5V/7.96M	10	7.96	200	3.10	31
WI1608-8R2K	8.2	±10%	0.5V/7.96M	10	7.96	190	4.40	26
WI1608-100K	10	±10%	0.5V/2.52M	10	2.52	180	4.80	25

Typical Electrical Characteristics:

Inductance VS. DC Current:



Impedance VS. Frequency Characteristics:

