

WCIV Series
Wire Wound Inductor
Size 1608



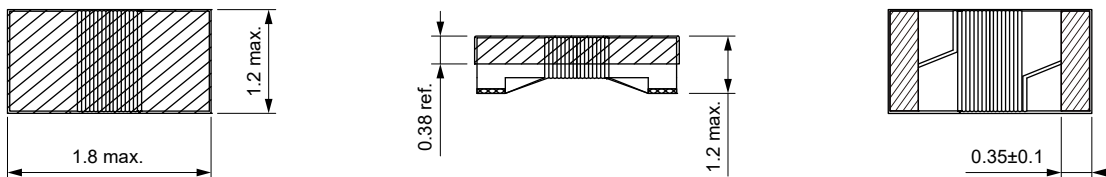
FEATURES

- Ceramic core wire wound construction with high Q and high SRF
- Small size and small tolerance available
- AEC-Q200 qualified
- Lead-free reflow soldering as referenced in JEDEC J-STD 020D and RoHS compliant
- Operating Temperature: -55~+125 °C (Including self-temperature)
- Quantity: 3000pcs

APPLICATION

- Resonant circuits, impedance matching for
- Antenna amplifiers
- Multimedia
- Wireless communication systems
- Automotive electronics
- GPS (Global Positioning System)
- Low-pass filters for data lines

Dimensions: [mm]



Electrical Properties:

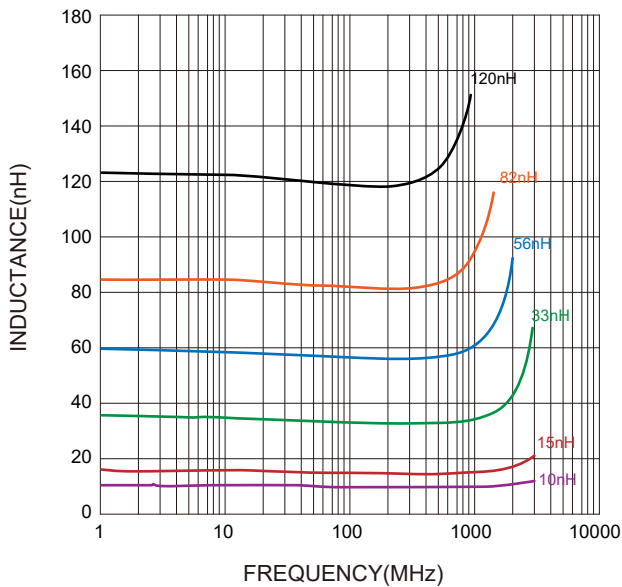
Part No	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q Min.	Test Frequency Q (MHz)	Temperature Rise Current Max. (mA)	DC Resistance Max. (Ω)	SRF Min. (MHz)
WCIV1608HF-2N0□	2.0	C,S	0.1V/250M	13	250	700	0.07	8000
WCIV1608HF-3N9□	3.9	C,S	0.1V/250M	22	250	700	0.07	6900
WCIV1608HF-4N7□	4.7	C,J	0.1V/250M	20	250	700	0.12	5800
WCIV1608HF-6N8□	6.8	C,J	0.1V/250M	27	250	700	0.08	5800
WCIV1608HF-8N2□	8.2	C,J	0.1V/250M	30	250	700	0.13	4200
WCIV1608HF-10NJ	10	±5%	0.1V/250M	31	250	700	0.13	4800
WCIV1608HF-12NJ	12	±5%	0.1V/250M	35	250	700	0.13	4000
WCIV1608HF-15NJ	15	±5%	0.1V/250M	35	250	700	0.13	4000
WCIV1608HF-18NJ	18	±5%	0.1V/250M	35	250	700	0.16	3100
WCIV1608HF-22NJ	22	±5%	0.1V/250M	38	250	700	0.23	3000
WCIV1608HF-24NJ	24	±5%	0.1V/250M	38	250	700	0.13	2800

Part No	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q Min.	Test Frequency Q (MHz)	Temperature Rise Current Max. (mA)	DC Resistance Max. (Ω)	SRF Min. (MHz)
WCIV1608HF-27NJ	27	$\pm 5\%$	0.1V/250M	40	250	600	0.14	2800
WCIV1608HF-33NJ	33	$\pm 5\%$	0.1V/250M	40	250	600	0.22	2300
WCIV1608HF-39NJ	39	$\pm 5\%$	0.1V/250M	40	250	600	0.30	2200
WCIV1608HF-47NJ	47	$\pm 5\%$	0.1V/200M	38	250	600	0.35	2000
WCIV1608HF-56NJ	56	$\pm 5\%$	0.1V/200M	38	250	600	0.37	1900
WCIV1608HF-68NJ	68	$\pm 5\%$	0.1V/200M	37	250	600	0.43	1700
WCIV1608HF-72NJ	72	$\pm 5\%$	0.1V/150M	34	250	400	0.42	1700
WCIV1608HF-82NJ	82	$\pm 5\%$	0.1V/150M	34	250	400	0.71	1700
WCIV1608HF-R10J	100	$\pm 5\%$	0.1V/150M	34	250	400	0.78	1400
WCIV1608HF-R12J	120	$\pm 5\%$	0.1V/150M	32	250	300	0.84	1300
WCIV1608HF-R15J	150	$\pm 5\%$	0.1V/150M	28	250	280	0.96	990
WCIV1608HF-R18J	180	$\pm 5\%$	0.1V/100M	25	250	240	1.52	990
WCIV1608HF-R22J	220	$\pm 5\%$	0.1V/100M	25	250	200	2.02	900
WCIV1608HF-R27J	270	$\pm 5\%$	0.1V/100M	24	250	170	2.36	900
WCIV1608HF-R33J	330	$\pm 5\%$	0.1V/100M	24	250	185	3.40	700
WCIV1608HF-R39J	390	$\pm 5\%$	0.1V/100M	24	250	100	3.60	900

Inductance Tolerance: C= ± 0.2 nH , S= ± 0.3 nH , J= $\pm 5\%$

Typical Electrical Characteristics:

Inductance VS. Frequency Characteristics:



Q VS. Frequency Characteristics:

