

**WCIV Series**  
Wire Wound Inductor  
Size 2520



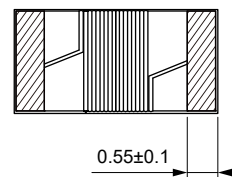
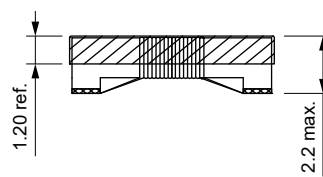
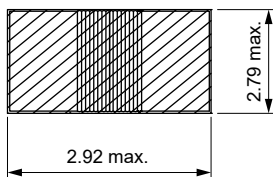
**FEATURES**

- 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: 2000pcs

**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:**

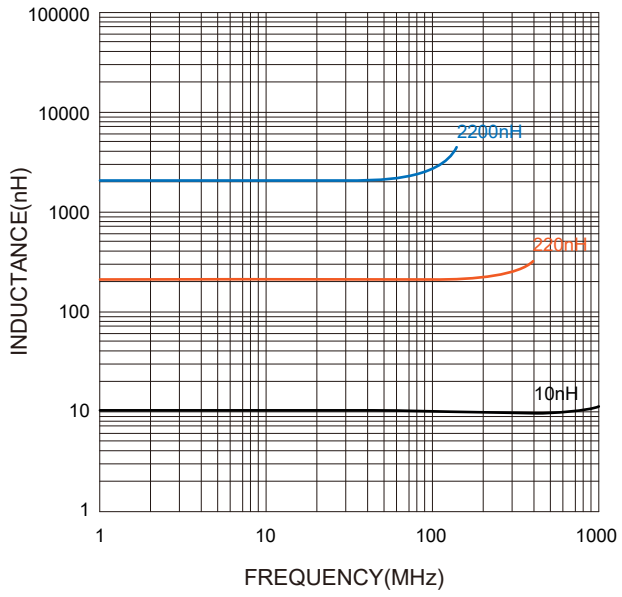
Part No	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q Min.	Test Freq. Q(MHz)	Temperature Rise Current Max. (mA)	DC Resistance Max. (Ω)	SRF Min. (MHz)
WCIV2520HF-10N□	10	G,J	0.1V/50M	50	500	1000	0.08	4100
WCIV2520HF-12N□	12	G,J	0.1V/50M	50	500	1000	0.09	3300
WCIV2520HF-15N□	15	G,J	0.1V/50M	50	500	1000	0.18	2500
WCIV2520HF-18N□	18	G,J	0.1V/50M	50	350	1000	0.11	2500
WCIV2520HF-22N□	22	G,J	0.1V/50M	55	350	1000	0.12	2400
WCIV2520HF-27N□	27	G,J	0.1V/50M	55	350	1000	0.13	1600
WCIV2520HF-33N□	33	G,J	0.1V/50M	60	350	1000	0.14	1600
WCIV2520HF-39N□	39	G,J	0.1V/50M	60	350	1000	0.15	1500
WCIV2520HF-47N□	47	G,J	0.1V/50M	65	350	1000	0.16	1500
WCIV2520HF-56N□	56	G,J	0.1V/50M	65	350	1000	0.18	1300
WCIV2520HF-68N□	68	G,J	0.1V/50M	65	350	1000	0.20	1300

Part No	Inductance (nH)	Tolerance	Test Frequency (Hz)	Q Min.	Test Freq. Q(MHz)	Temperature Rise Current Max. (mA)	DC Resistance Max. ( $\Omega$ )	SRF Min. (MHz)
WCIV2520HF-82N□	82	G,J	0.1V/50M	60	350	1000	0.22	1000
WCIV2520HF-R10□	100	G,J	0.1V/25M	60	350	650	0.56	1000
WCIV2520HF-R12□	120	G,J	0.1V/25M	60	350	650	0.63	950
WCIV2520HF-R15□	150	G,J	0.1V/25M	45	100	580	0.70	850
WCIV2520HF-R18□	180	G,J	0.1V/25M	45	100	620	0.77	750
WCIV2520HF-R22□	220	G,J	0.1V/25M	45	100	500	0.84	700
WCIV2520HF-R27□	270	G,J	0.1V/25M	45	100	500	0.91	600
WCIV2520HF-R33□	330	G,J	0.1V/25M	45	100	450	1.05	570
WCIV2520HF-R39□	390	G,J	0.1V/25M	45	100	470	1.12	500
WCIV2520HF-R47□	470	G,J	0.1V/25M	45	100	470	1.19	450
WCIV2520HF-R56□	560	G,J	0.1V/25M	45	100	400	1.33	415
WCIV2520HF-R62□	620	G,J	0.1V/25M	45	100	300	1.40	375
WCIV2520HF-R68□	680	G,J	0.1V/25M	45	100	400	1.47	375
WCIV2520HF-R75□	750	G,J	0.1V/25M	45	100	360	1.54	360
WCIV2520HF-R82□	820	G,J	0.1V/25M	45	100	400	1.61	350
WCIV2520HF-R91□	910	G,J	0.1V/25M	35	50	380	1.68	320
WCIV2520HF-1R0□	1000	G,J	0.1V/25M	35	50	370	1.75	290
WCIV2520HF-1R2□	1200	G,J	0.1V/7.9M	35	50	310	2.00	250
WCIV2520HF-1R5□	1500	G,J	0.1V/7.9M	28	50	330	2.23	200
WCIV2520HF-1R8□	1800	G,J	0.1V/7.9M	28	50	300	2.60	160
WCIV2520HF-2R2□	2200	G,J	0.1V/7.9M	28	50	280	2.80	160
WCIV2520HF-2R7□	2700	G,J	0.1V/7.9M	22	25	290	3.20	140
WCIV2520HF-3R3□	3300	G,J	0.1V/7.9M	22	25	290	3.40	110
WCIV2520HF-3R9□	3900	G,J	0.1V/7.9M	20	25	260	3.60	100
WCIV2520HF-4R7□	4700	G,J	0.1V/7.9M	18	7.9	200	4.00	32
WCIV2520HF-5R6□	5600	G,J	0.1V/7.9M	18	7.9	200	4.00	25
WCIV2520HF-6R8□	6800	G,J	0.1V/7.9M	18	7.9	200	4.90	21
WCIV2520HF-8R2□	8200	G,J	0.1V/7.9M	16	7.9	170	6.00	16
WCIV2520HF-100□	10000	G,J	0.1V/2.52M	15	7.9	170	8.00	14

Inductance Tolerance: G=±2% , J=±5%

## Typical Electrical Characteristics:

Inductance VS. Frequency Characteristics:



Impedance VS. Frequency Characteristics:

