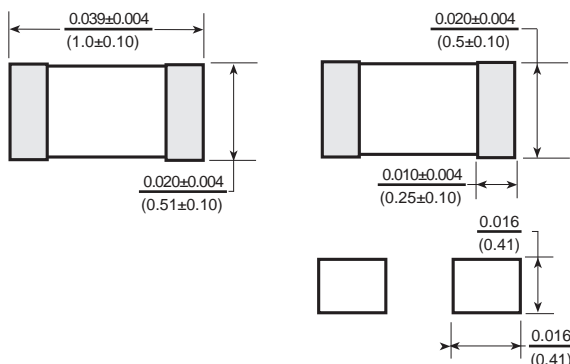


HFCLR03 High Frequency Low Resistance Inductor



Dimensions: $\frac{\text{Inches}}{\text{(mm)}}$



Features

- 0402 EIA size for high board density applications.
- Excellent Q and SRF characteristics for high frequency applications.
- Cost effective monolithic construction

Electrical

Inductance range: 1.0nh to 100nh

Tolerance: use S for $\pm .3$ nh, J for 5%, K for 10%

IDC Max: Current at which the temperature rise shall not be more than 30°C.

Test Frequency: Inductance and Q tested at 100MHz, 200mv with HP4291A Impedance Analyzer

Inductance vs Freq. Characteristics measured on HP4291A

Q vs Frequency Characteristics measured on HP4291A

SRF measured on HPE4991 & HP87530

DCR measured on Chen Hwa CH502BC or HP4338B

Mechanical

Operating Temperature: -55°C-125°C

Storage Temperature: -55°C to +125°C after mounting to PCB, -5°C to +40°C @ 40% to 70% humidity before mounting to PCB

Solderability: 90% terminal coverage

Test Condition: Pre heat:150°C. 1min.

Solder composition:

Sn/Ag3.0/Cu.0.5 (Pb free)

Solder temp: 245°C \pm 5°C (pb Free)

Immersion time: 4 \pm 1 sec.

Resistance to solder heat:

No damage to part

Test Condition

Pre heat: 150°C. 1min.

Solder composition:

Sn/Ag3.0/Cu.0.5 (Pb free)

Solder temp: 260°C \pm 5°C (pb Free)

Immersion time: 10 \pm 1 sec.

Physical

Packaging: 10000 pieces per 7 inch reel.

Allied Part Number	Inductance (nh) @ 100MHz	Tolerance (%)	Q Min.	SRF Typical (MHz)	RDC Max. (Ω)	IDC Max. (mA)
HFCLR03-1N0S-RC	1.0	0.3nH	8	10000	0.07	400
HFCLR03-1N2S-RC	1.2	0.3nH	8	10000	0.09	400
HFCLR03-1N5S-RC	1.5	0.3nH	8	9000	0.10	400
HFCLR03-1N8S-RC	1.8	0.3nH	8	8700	0.10	400
HFCLR03-2N0S-RC	2.0	0.3nH	8	8100	0.10	400
HFCLR03-2N2S-RC	2.2	0.3nH	8	8100	0.12	400
HFCLR03-2N4S-RC	2.4	0.3nH	8	7700	0.15	400
HFCLR03-2N7S-RC	2.7	0.3nH	8	7700	0.15	400
HFCLR03-3N0S-RC	3.0	0.3nH	8	6300	0.15	400
HFCLR03-3N3S-RC	3.3	0.3nH	8	6300	0.15	400
HFCLR03-3N6S-RC	3.6	0.3nH	8	6100	0.15	400
HFCLR03-3N9S-RC	3.9	0.3nH	8	6100	0.18	400
HFCLR03-4N3S-RC	4.3	0.3nH	8	6000	0.18	400
HFCLR03-4N7S-RC	4.7	0.3nH	8	6000	0.18	400
HFCLR03-5N1S-RC	5.1	0.3nH	8	5300	0.20	400
HFCLR03-5N6S-RC	5.6	0.3nH	8	5100	0.20	400
HFCLR03-6N2S-RC	6.2	0.3nH	8	4500	0.22	400
HFCLR03-6N8_-RC	6.8	5, 10	8	4550	0.24	400
HFCLR03-7N5_-RC	7.5	5, 10	8	4200	0.24	300
HFCLR03-8N2_-RC	8.2	5, 10	8	4100	0.24	300
HFCLR03-9N1_-RC	9.1	5, 10	8	3900	0.26	300
HFCLR03-10N_-RC	10	5, 10	8	3900	0.26	300
HFCLR03-12N_-RC	12	5, 10	8	3000	0.28	300
HFCLR03-15N_-RC	15	5, 10	8	2500	0.32	300
HFCLR03-18N_-RC	18	5, 10	8	2200	0.36	300
HFCLR03-22N_-RC	22	5, 10	8	1900	0.42	300
HFCLR03-27N_-RC	27	5, 10	8	1700	0.46	300
HFCLR03-33N_-RC	33	5, 10	8	1600	0.58	200
HFCLR03-39N_-RC	39	5, 10	8	1200	0.65	200
HFCLR03-47N_-RC	47	5, 10	8	1000	0.72	200
HFCLR03-56N_-RC	56	5, 10	8	800	0.82	200
HFCLR03-68N_-RC	68	5, 10	8	800	0.92	180
HFCLR03-82N_-RC	82	5, 10	8	700	1.20	150
HFCLR03-100N_-RC	100	5, 10	8	700	1.60	150

Note: Insert desired tolerance here "_" Tolerance Values J= \pm 5%, K= \pm 10%
All specifications subject to change without notice.