







**THE DATASHEET OF
PE-0402CC270JTT**



CERAMIC RF CHIP INDUCTORS – 0402CC SERIES



-  Monolithic inorganic material construction
-  Low DC resistance and high Q Values at high frequency
-  High Self Resonant Frequency
-  Industry Standard 0402 (1005) Surface Mount Land Pattern

Electrical Specifications @ 25°C

Part Number	Inductance (nH)	Standard Tolerance	Q (Min.)	Test Frequency (MHz)	SRF (MHz MIN)	R _{dc} (Ω MAX)	I _{dc} (mA MAX)
PE-0402CC1N0STT	1.0	±0.3nH (S)	8	100	10000	0.08	300
PE-0402CC1N2STT	1.2	±0.3nH (S)	8	100	10000	0.09	300
PE-0402CC1N5STT	1.5	±0.3nH (S)	8	100	6000	0.1	300
PE-0402CC1N8STT	1.8	±0.3nH (S)	8	100	6000	0.12	300
PE-0402CC2N0STT	2.0	±0.3nH (S)	8	100	6000	0.12	300
PE-0402CC2N2STT	2.2	±0.3nH (S)	8	100	6000	0.13	300
PE-0402CC2N4STT	2.4	±0.3nH (S)	8	100	6000	0.13	300
PE-0402CC2N7STT	2.7	±0.3nH (S)	8	100	6000	0.13	300
PE-0402CC3N0STT	3.0	±0.3nH (S)	8	100	6000	0.16	300
PE-0402CC3N3STT	3.3	±0.3nH (S)	8	100	6000	0.16	300
PE-0402CC3N6STT	3.6	±0.3nH (S)	8	100	5000	0.20	300
PE-0402CC3N9STT	3.9	±0.3nH (S)	8	100	4000	0.21	300
PE-0402CC4N36STT	4.3	±0.3nH (S)	8	100	4000	0.20	300
PE-0402CC4N7STT	4.7	±0.3nH (S)	8	100	4000	0.21	300
PE-0402CC5N1STT	5.1	±0.3nH (S)	8	100	4000	0.21	300
PE-0402CC5N6STT	5.6	±0.3nH (S)	8	100	4000	0.23	300
PE-0402CC6N2STT	6.2	±0.3nH (S)	8	100	3900	0.25	300
PE-0402CC6N8JTT	6.8	±5% (J)	8	100	3900	0.25	300
PE-0402CC7N5JTT	7.5	±5% (J)	8	100	3700	0.25	300
PE-0402CC8N2JTT	8.2	±5% (J)	8	100	3600	0.28	300
PE-0402CC9N1JTT	9.1	±5% (J)	8	100	3400	0.30	300
PE-0402CC100JTT	10	±5% (J)	8	100	3200	0.31	300
PE-0402CC120JTT	12	±5% (J)	8	100	2700	0.4	300
PE-0402CC150JTT	15	±5% (J)	8	100	2300	0.46	300
PE-0402CC180JTT	18	±5% (J)	8	100	2100	0.55	300
PE-0402CC220JTT	22	±5% (J)	8	100	1900	0.6	300
PE-0402CC270JTT	27	±5% (J)	8	100	1600	0.7	300
PE-0402CC330JTT	33	±5% (J)	8	100	1300	0.8	200

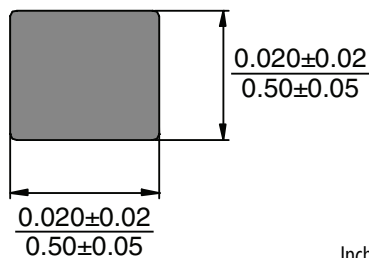
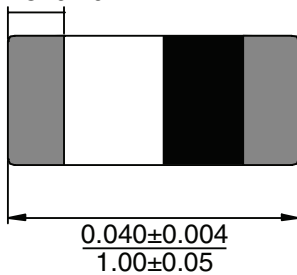
Electrical Specifications @ 25°C

Part Number	Inductance (nH)	Standard Tolerance	Q (Min.)	Test Frequency (MHz)	SRF (MHz MIN)	R _{DC} (Ω MAX)	I _{bc} (mA MAX)
PE-0402CC390JTT	39	±5% (J)	8	100	1200	0.9	200
PE-0402CC470JTT	47	±5% (J)	8	100	1000	1.0	200
PE-0402CC560JTT	56	±5% (J)	8	100	750	1.0	200
PE-0402CC680JTT	68	±5% (J)	8	100	750	1.2	180
PE-0402CC820JTT	82	±5% (J)	8	100	600	1.3	150
PE-0402CC101JTT	100	±5% (J)	8	100	600	1.5	150
PE-0402CC121JTT	120	±5% (J)	8	100	600	1.6	150
PE-0402CC151JTT	150	±5% (J)	8	100	550	3.2	140
PE-0402CC181JTT	180	±5% (J)	8	100	500	3.7	130
PE-0402CC221JTT	220	±5% (J)	8	100	450	4.2	120
PE-0402CC271JTT	270	±5% (J)	8	100	400	4.8	110

Mechanical

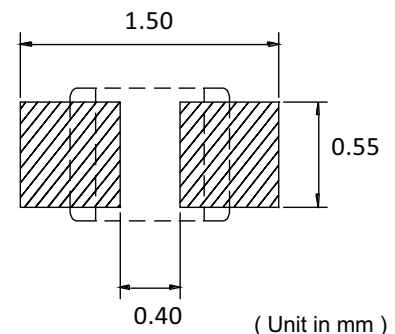
0402CC Series

$\frac{0.0098 \pm 0.0039}{0.25 \pm 0.10}$



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

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$



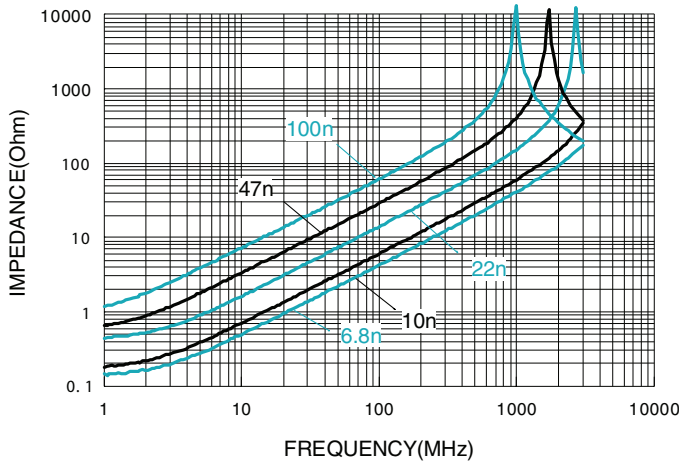
Suggested PCB LAND PATTERN

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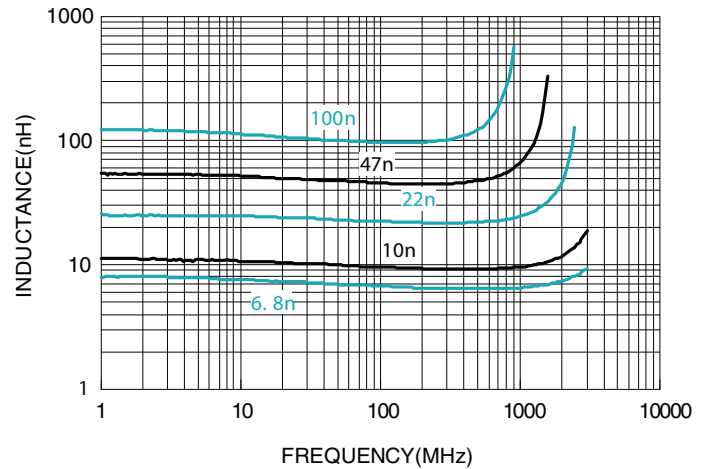
Characteristic Graphs

0402CC Series

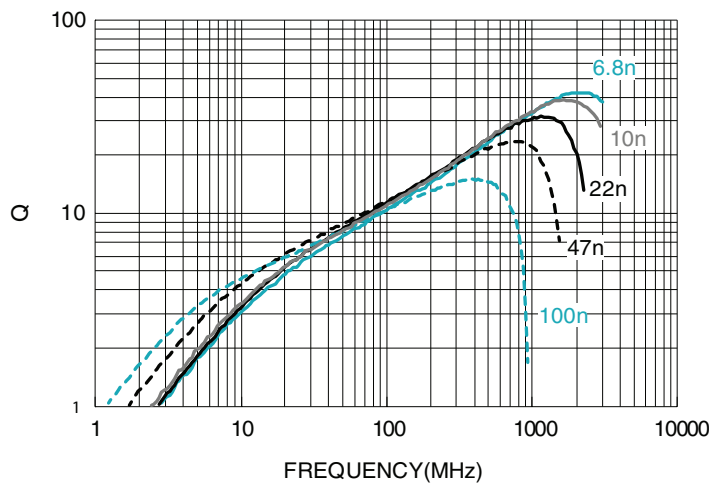
Impedance v.s. Frequency Characteristics



Inductance v.s. Frequency Characteristics



Q v.s. Frequency Characteristics



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