PE-0402CL680JTT Datasheet

DiGi Electronics Part Number	PE-0402CL680JTT-DG
Manufacturer	Pulse Electronics
Manufacturer Product Number	PE-0402CL680JTT
Description	FIXED IND 68NH 180MA 1.4 OHM SMD
Detailed Description	68 nH Unshielded Multilayer Inductor 180 mA 1.4Ohm Max 0402 (1005 Metric)

Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
PE-0402CL680JTT	Pulse Electronics
Series:	Product Status:
PE-0402CL	Active
Type:	Material - Core:
Multilayer	Ceramic
Inductance:	Tolerance:
68 nH	±5%
Current Rating (Amps):	Current - Saturation (Isat):
180 mA	-
Shielding:	DC Resistance (DCR):
Unshielded	1.4Ohm Max
Q @ Freq:	Frequency - Self Resonant:
8 @ 100MHz	750MHz
Ratings:	Operating Temperature:
-	-55°C ~ 125°C
Inductance Frequency - Test:	Features:
100 MHz	-
Mounting Type:	Package / Case:
Surface Mount	0402 (1005 Metric)
Supplier Device Package:	Size / Dimension:
0402	0.039" L x 0.020" W (1.00mm x 0.50mm)
Height - Seated (Max):	
0.022" (0.55mm)	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.8000	

Ceramic RF Chip Inductors

PE-0402CL Series

Pulse
a YAGEO company

- *Monolithic inorganic material construction*
- *Low DC resistance, high Q Values at high frequency*
- *High Self Resonant Frequency*
- *Industry Standard 0402 (1005) Surface Mount Land Pattern*
- *Operational temperature -55°C to +125°C*

Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C

Part Number	Inductance[1] (nH)	Standard Tolerance	Q[2] (Min.)	Test Frequency (MHz)	SRF[3] (MHz MIN)	R_{DC}[4] (Ω MAX)	I_{DC}[5] (mA MAX)
PE-0402CL1N0STT	1.0	±0.3nH (S)	8	100	10000	0.1	400
PE-0402CL1N2STT	1.2	±0.3nH (S)	8	100	10000	0.1	400
PE-0402CL1N5STT	1.5	±0.3nH (S)	8	100	6000	0.1	300
PE-0402CL1N8STT	1.8	±0.3nH (S)	8	100	6000	0.1	300
PE-0402CL2N0STT	2.0	±0.3nH (S)	8	100	6000	0.2	300
PE-0402CL2N2STT	2.2	±0.3nH (S)	8	100	6000	0.2	300
PE-0402CL2N7STT	2.7	±0.3nH (S)	8	100	6000	0.2	300
PE-0402CL3N3STT	3.3	±0.3nH (S)	8	100	6000	0.2	300
PE-0402CL3N6STT	3.6	±0.3nH (S)	8	100	4000	0.2	300
PE-0402CL3N9STT	3.9	±0.3nH (S)	8	100	4000	0.2	300
PE-0402CL4N7STT	4.7	±0.3nH (S)	8	100	4000	0.2	300
PE-0402CL5N6STT	5.6	±0.3nH (S)	8	100	4000	0.3	300
PE-0402CL6N2STT	6.2	±0.3nH (S)	8	100	3900	0.3	300
PE-0402CL6N8JTT	6.8	±5% (J)	8	100	3900	0.3	300
PE-0402CL7N5JTT	7.5	±5% (J)	8	100	3700	0.4	300
PE-0402CL8N2JTT	8.2	±5% (J)	8	100	3600	0.4	300
PE-0402CL100JTT	10	±5% (J)	8	100	3200	0.4	300
PE-0402CL120JTT	12	±5% (J)	8	100	2700	0.5	300
PE-0402CL150JTT	15	±5% (J)	8	100	2300	0.5	300
PE-0402CL180JTT	18	±5% (J)	8	100	2100	0.5	300
PE-0402CL220JTT	22	±5% (J)	8	100	1900	0.6	300
PE-0402CL270JTT	27	±5% (J)	8	100	1600	0.7	300
PE-0402CL330JTT	33	±5% (J)	8	100	1300	0.8	200

Ceramic RF Chip Inductors

PE-0402CL Series

Pulse a YAGEO company

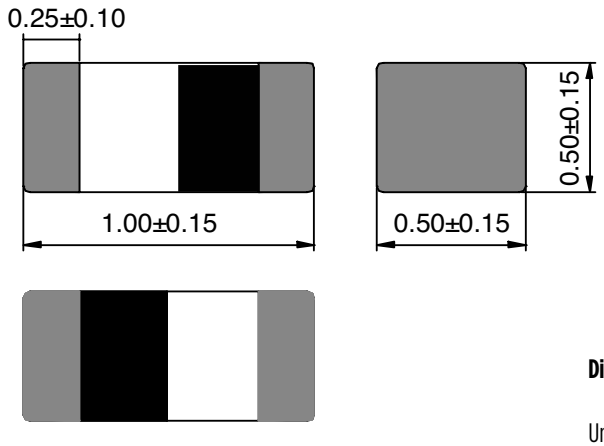
Mechanical Specfifcation - Dimension in mm							
Part Number	**Inductance**[1] (nH)	**Standard Tolerance**	**Q**[2] (Min.)	**Test Frequency** (MHz)	**SRF**[3] (MHz MIN)	**R_{DC}**[4] (Ω MAX)	**I_{DC}**[5] (mA MAX)
PE-0402CL470JTT	47	±5% (J)	8	100	1000	1.1	200
PE-0402CL560JTT	56	±5% (J)	8	100	750	1.2	200
PE-0402CL680JTT	68	±5% (J)	8	100	750	1.4	180
PE-0402CL820JTT	82	±5% (J)	8	100	750	2.4	150
PE-0402CL101JTT	100	±5% (J)	8	100	700	2.6	150
PE-0402CL121JTT	120	±5% (J)	8	100	600	2.8	150

Notes:

1. Inductance measured using a HP4286A RF Impedance Analyzer. (Please note that inductance information is not stamped on part, because of the extremely small size).
2. Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture.
3. SRF measured using a HP8753C Network Analyzer.
4. RDC measured using a Valhalla Scientific model 4100 ATC Digital Ohm meter.
5. Based on a 15°C maximum temperature rise.

Mechanical

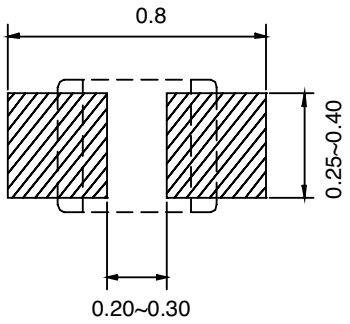
0402CL Series



Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± 0.10 / 0,25

Schematic



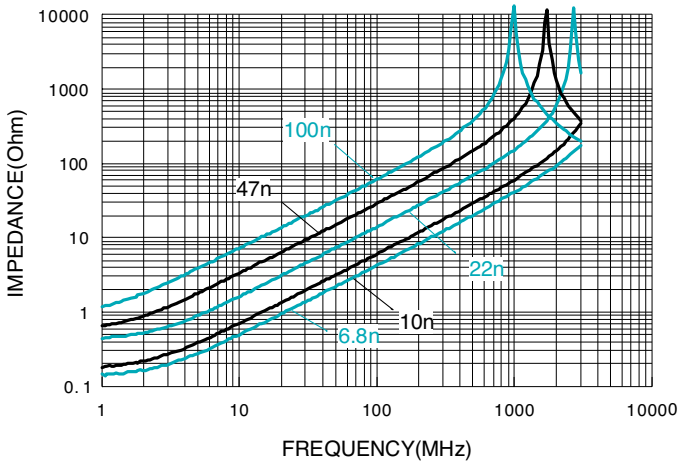
Ceramic RF Chip Inductors

PE-0402CL Series

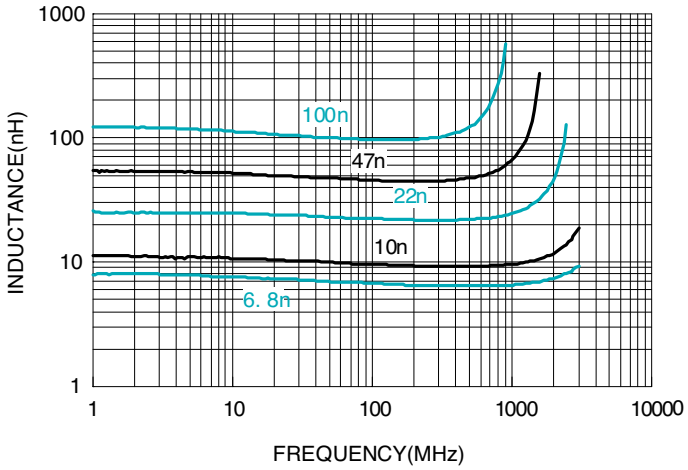
Characteristic Graphs

0402CL Series

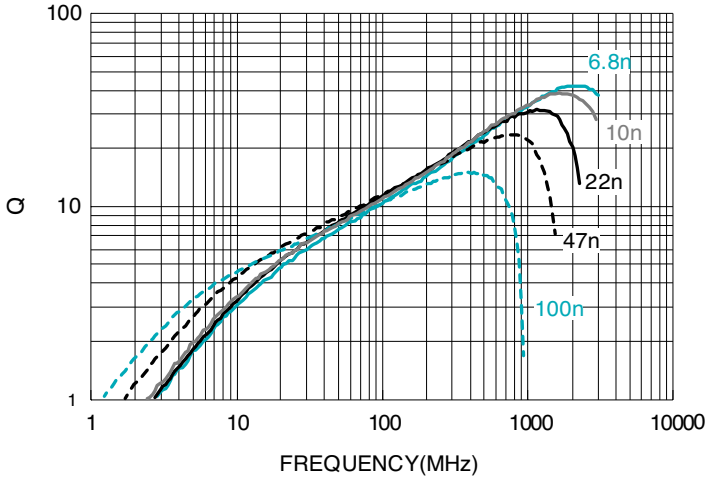
Impedance v.s. Frequency Characteristics



Inductance v.s. Frequency Characteristics



Q v.s. Frequency Characteristics

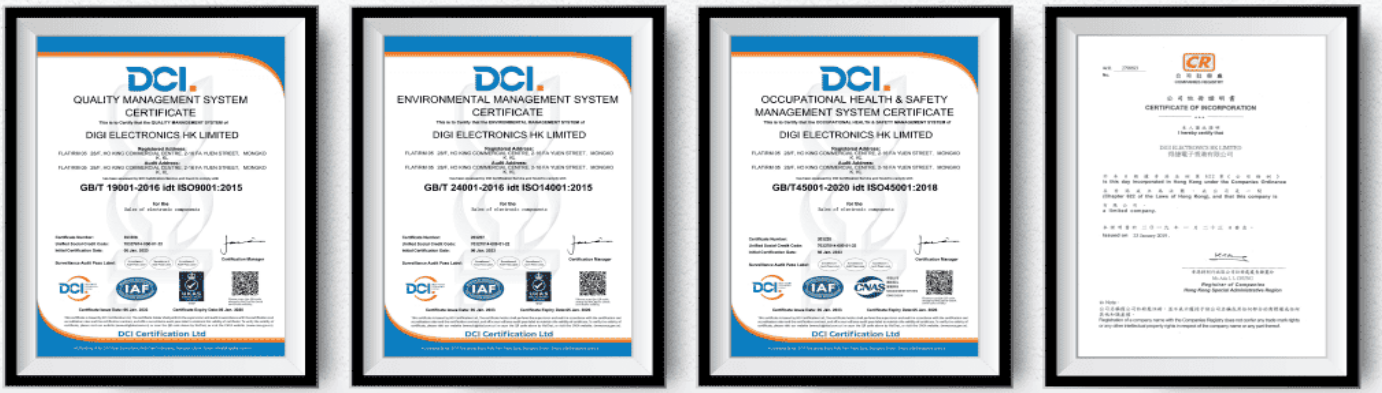


For More Information:

Americas - prod_info_network_americas@yageo.com | **Europe -** prod_info_network_emea@yageo.com | **Asia -** prod_info_network_apac@yageo.com

OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.