

CT Series



Due to accurate wire winding technology, these chip inductors are designed for filtering, impedance matching, resonance and choke circuits for RF designer. Both standard series custom designs are available.

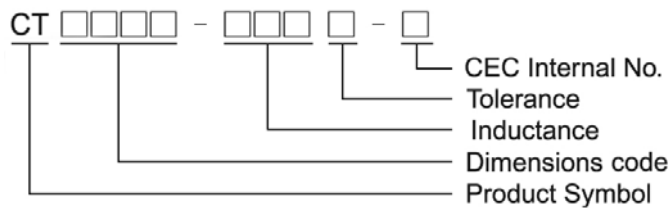
Features

- RoHS compliant.
- Ceramic body and wire wound construction provide highest SRFs
- Exceptional Q values even at high frequencies
- Highest possible SRFs as well as excellent Q values
- The non-magnetic coil form assures utmost thermal stability, predictability and batch consistency

Applications

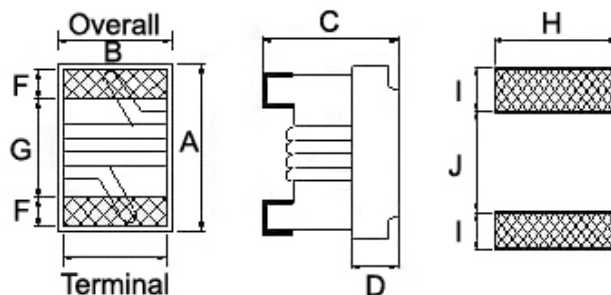
- RF products for cellular phone
- GPS receiver
- Base Station
- Repeater
- Wireless LAN/ mouse/ keyboard/ earphone
- Remote control
- Security system and other RF modules

Product Identification



Shape and Dimensions/ Recommended Pattern

CT0805



Dimensions

		A Max	B Max	C Max	D	E	F	G	H	I	J
CT0805	inch	0.093	0.068	0.039	0.020	0.050	0.020	0.040	0.070	0.040	0.030
	mm	2.35	1.73	1.10	0.51	1.27	0.51	1.02	1.78	1.02	0.76

SMD Wire Wound Ceramic Chip Inductors - CT Series

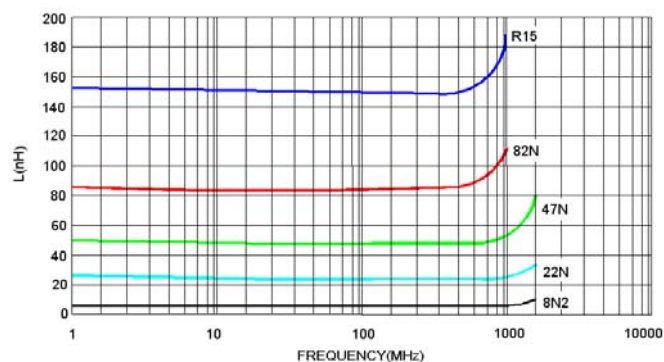
Electrical Characteristics

Part Number	Inductance (nH)	Test Frequency (MHz)	Tolerance (±%)	Q Min	Test Frequency (MHz)	SRF (MHz) Min	Rdc (Ω) Max	Irms (mA) Max	Color
CT0805-1N8□-S	1.8	250	10	55	1500	9400	0.03	800	Black
CT0805-3N9□-S	3.9	250	10	50	1000	6100	0.06	800	Brown
CT0805-4N7□-S	4.7	250	10 / 5	50	1000	5500	0.06	800	Red
CT0805-6N8□-S	6.8	250	10 / 5	50	1000	5500	0.08	800	Orange
CT0805-8N2□-S	8.2	250	10 / 5	50	1000	4800	0.08	800	Yellow
CT0805-10N□-S	10	250	10 / 5 / 2	55	750	3300	0.08	800	Green
CT0805-12N□-S	12	250	10 / 5 / 2	55	750	3800	0.10	800	Blue
CT0805-15N□-S	15	250	10 / 5 / 2	50	500	2950	0.10	800	Violet
CT0805-18N□-S	18	250	10 / 5 / 2	50	500	3100	0.13	800	Gray
CT0805-22N□-S	22	250	10 / 5 / 2	50	500	2900	0.15	800	White
CT0805-27N□-S	27	250	10 / 5 / 2	50	500	2450	0.23	600	Black
CT0805-33N□-S	33	250	10 / 5 / 2	55	500	2350	0.28	600	Brown
CT0805-39N□-S	39	250	10 / 5 / 2	55	500	2200	0.33	600	Red
CT0805-47N□-S	47	200	10 / 5 / 2	50	500	2000	0.39	600	Orange
CT0805-56N□-S	56	200	10 / 5 / 2	50	500	1850	0.39	500	Yellow
CT0805-68N□-S	68	200	10 / 5 / 2	50	500	1500	0.40	500	Green
CT0805-82N□-S	82	150	10 / 5 / 2	50	500	1500	0.44	500	Blue
CT0805-R10□-S	100	150	10 / 5 / 2	50	500	1200	0.64	400	Violet
CT0805-R12□-S	120	150	10 / 5 / 2	40	250	1150	0.68	300	Gray
CT0805-R15□-S	150	150	10 / 5 / 2	40	250	1050	0.80	300	White
CT0805-R18□-S	180	150	10 / 5 / 2	40	250	950	0.90	300	Black
CT0805-R22□-S	220	150	10 / 5 / 2	40	250	900	0.98	300	Brown
CT0805-R27□-S	270	150	10 / 5 / 2	40	250	850	1.30	300	Red
CT0805-R33□-S	330	100	10 / 5 / 2	40	250	800	1.45	300	Orange
CT0805-R39□-S	390	100	10 / 5 / 2	35	250	700	1.60	300	Yellow
CT0805-R47□-S	470	50	10 / 5 / 2	25	100	600	1.80	300	Green
CT0805-R56□-S	560	25	10 / 5 / 2	18	50	550	1.90	300	Blue
CT0805-R62□-S	620	25	10 / 5 / 2	18	50	450	2.00	300	Violet
CT0805-R68□-S	680	25	10 / 5 / 2	18	50	420	2.10	300	Gray
CT0805-R75□-S	750	25	10 / 5 / 2	18	50	400	2.20	300	White
CT0805-R82□-S	820	25	10 / 5 / 2	18	50	400	2.50	300	Black
CT0805-1R0□-S	1000	25	10 / 5	17	50	330	3.10	300	Brown

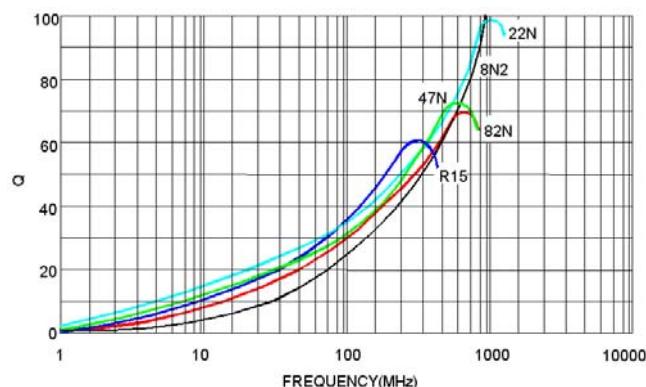
- When ordering, please specify tolerance and packaging codes.
- Tolerance: G = ±2%, J = ±5%, K = ±10%
- L/Q: Agilent E4991A+ Agilent HP16197A
- SRF: Agilent/HP8753D / Agilent E4991A
- RDC: CH502BC/ HP4338B
- I_{rms} for a 15°C rise above 25°C ambient.
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

Test Instruments : Agilent E4991A Material/Impedance Analyzer

Typical **L** vs. **Frequency**

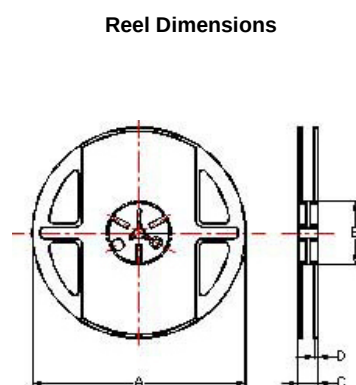
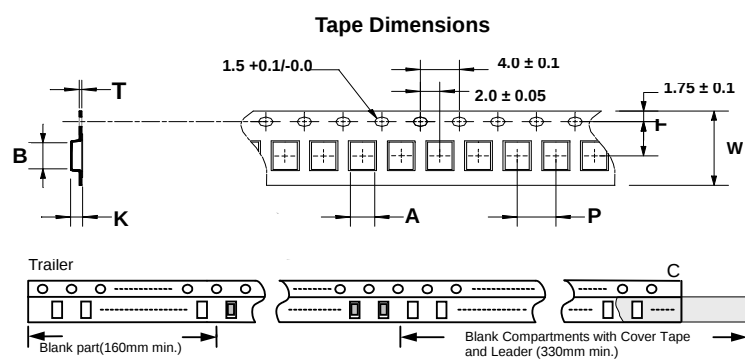


Typical **Q** vs. **Frequency**



SMD Wire Wound Ceramic Chip Inductors - CT Series

Packaging Specifications



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	A	B	T	W	P	F	K	A	B	C	D	
CT0805	1.85	2.45	0.23	8	4	3.5	1.10	178	60	12	1.5	2000