

## CT0806SQF CT0807SQF CT0908SQF Series

From 5.5 nH to 27.3 nH



### CHARACTERISTICS

**Description:** Square Air Core Inductor.

**Applications:** Electronic products, communication equipment, computer devices, TV, DVD, mobile chargers, etc.

**Features:** Excellent Q factors, up to 130. Current handling as high as 4.4A. Flat top and bottom for reliable pick and place and mechanical stability.

**Operating Temperature:** -40°C to +105°C

**Dielectric Withstanding Voltage:** 250VAC.

**Inductance Tolerance:** ±2%, ±5%

**Testing:** Inductance is tested on an HP4287A at 400MHz.

**Mean Time Between Failures (MTBF):** 1 Billion Hours.

**PCB Washing:** Only pure water or alcohol recommended.

**Packaging:** Tape & Reel.

**Miscellaneous:** **RoHS Compliant.**

**Additional Information:** Additional electrical & physical information available upon request.

**Samples available. See website for ordering information.**

### SPECIFICATIONS

Please specify tolerance code when ordering.  
CT0806SQF-5N5 ← G = ±2%, J = ±5%

Part Number	Inductance at 400MHz (nH)	Q Typ. at 400MHz	DCR Max. (mΩ)	I <sub>rms</sub> (A)	SRF Typ. (GHz)
CT0806SQF-5N5	5.5	60	3.4	2.9	4.9
CT0806SQF-6N0	6.0	64	6.0	2.9	5.2
CT0806SQF-8N9	8.9	90	7.0	2.9	4.3
CT0806SQF-12N	12.3	90	8.0	2.9	4.8
CT0806SQF-16N	15.7	90	9.0	2.9	4.4
CT0806SQF-19N	19.4	90	10.0	2.9	4.0
CT0807SQF-6N9	6.9	100	6.0	2.7	4.6
CT0807SQF-10N	10.2	100	7.0	2.7	4.0
CT0807SQF-11N	11.2	90	6.3	2.7	3.6
CT0807SQF-14N	13.7	100	8.0	2.7	4.3
CT0807SQF-17N	17.0	100	9.0	2.7	4.0
CT0807SQF-22N	22.0	100	10.0	2.7	3.5
CT0908SQF-8N1	8.1	130	6.0	4.4	5.2
CT0908SQF-12N	12.1	130	7.0	4.4	4.3
CT0908SQF-14N	14.7	90	7.2	4.4	3.0
CT0908SQF-17N	16.6	130	8.0	4.4	3.4
CT0908SQF-22N	21.5	130	9.0	4.4	3.7
CT0908SQF-23N	23.0	120	10.0	4.4	2.6
CT0908SQF-25N	25.0	130	10.0	4.4	2.5
CT0908SQF-27N	27.3	130	10.0	4.4	3.2

### PHYSICAL DIMENSIONS (Unit: mm)

Part Number	A	B	C Max.	D Typ.	E Typ.	F Typ.	Fig
CT0806SQF-5N5	1.346±0.102	1.829±0.254	2.2	0.962	2.6	0.51	2
CT0806SQF-6N0	1.295±0.102	1.829±0.254	2.2	0.99	2.6	0.51	1
CT0806SQF-8N9	1.626±0.152	1.829±0.254	2.4	1.27	2.6	0.51	1
CT0806SQF-12N	1.930±0.152	1.829±0.254	2.4	1.63	2.6	0.51	1
CT0806SQF-16N	2.286±0.152	1.829±0.254	2.2	1.96	2.6	0.51	1
CT0806SQF-19N	2.591±0.152	1.829±0.254	2.2	2.29	2.6	0.51	1
CT0807SQF-6N9	1.295±0.102	1.829±0.254	2.4	1.02	2.6	0.51	2
CT0807SQF-10N	1.626±0.152	1.829±0.254	2.4	1.32	2.6	0.51	2
CT0807SQF-11N	1.549±0.152	1.829±0.254	2.4	1.24	2.6	0.51	1
CT0807SQF-14N	1.930±0.152	1.829±0.254	2.4	1.57	2.6	0.51	1
CT0807SQF-17N	2.286±0.152	1.829±0.254	2.4	1.93	2.6	0.51	2
CT0807SQF-22N	2.591±0.152	1.829±0.254	2.4	2.29	2.6	0.51	1
CT0908SQF-8N1	1.473±0.152	2.134±0.152	2.8	1.12	2.8	0.64	2
CT0908SQF-12N	1.854±0.152	2.134±0.152	2.8	1.45	2.8	0.64	2
CT0908SQF-14N	1.549±0.152	2.034±0.152	2.5	1.24	2.8	0.64	1
CT0908SQF-17N	2.210±0.152	2.134±0.152	2.8	1.83	2.8	0.64	2
CT0908SQF-22N	2.565±0.152	2.034±0.152	2.8	2.18	2.8	0.64	2
CT0908SQF-23N	2.235±0.152	1.984±0.152	2.5	1.9	2.8	0.64	1
CT0908SQF-25N	2.972±0.152	2.084±0.152	2.5	2.57	2.8	0.64	1
CT0908SQF-27N	2.972±0.152	2.134±0.152	2.8	2.57	2.8	0.64	2

