Square Air Core Inductors

Meisongbei



Features

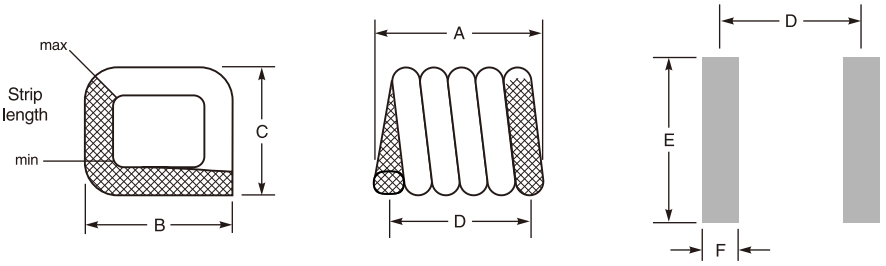
- L from 5.5 to 27nH, 5%, 2% tolerance
- Flat top and bottom for reliable pick and place and mechanical stability
- Excellent Q factors - up to 130;
- Current ratings up to 4.4 Amps

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

Shape and Dimensions (Unit:mm)



Type	A	B	C	D	E	F	Weight(mg)
M0806SQ-5N5	1.35 ±0.15	1.83 ±0.25	1.40 ±0.15	0.96	2.60	0.51	9.9
M0806SQ-6N0	1.30 ±0.15	1.83 ±0.25	1.40 ±0.15	1.02	2.60	0.51	8.5
M0806SQ-8N9	1.63 ±0.15	1.83 ±0.25	1.40 ±0.15	1.32	2.60	0.51	10.8
M0806SQ-12N	1.93 ±0.15	1.83 ±0.25	1.40 ±0.15	1.63	2.60	0.51	13.6
M0806SQ-16N	2.29 ±0.15	1.83 ±0.25	1.40 ±0.15	1.96	2.60	0.51	16.1
M0806SQ-19N	2.59 ±0.15	1.83 ±0.25	1.40 ±0.15	2.29	2.60	0.51	18.7
M0807SQ-6N9	1.30 ±0.15	1.83 ±0.25	1.52 ±0.25	1.02	2.60	0.51	9.1
M0807SQ-10N	1.63 ±0.15	1.83 ±0.25	1.52 ±0.25	1.32	2.60	0.51	11.5
M0807SQ-11N	1.55 ±0.15	1.83 ±0.25	1.52 ±0.25	1.24	2.60	0.51	11.5
M0807SQ-14N	1.93 ±0.15	1.83 ±0.25	1.52 ±0.25	1.63	2.60	0.51	14.0
M0807SQ-17N	2.29 ±0.15	1.83 ±0.25	1.52 ±0.25	1.96	2.60	0.51	16.8
M0807SQ-22N	2.59 ±0.15	1.83 ±0.25	1.52 ±0.25	2.29	2.60	0.51	19.4
M0908SQ-8N1	1.47 ±0.15	2.14 ±0.15	1.83 ±0.2	1.12	2.80	0.64	12.8
M0908SQ-12N	1.85 ±0.15	2.14 ±0.15	1.83 ±0.2	1.45	2.80	0.64	16.9
M0908SQ-14N	1.55 ±0.15	2.14 ±0.15	1.83 ±0.2	1.24	2.80	0.64	13.5
M0908SQ-17N	2.21 ±0.15	2.14 ±0.15	1.83 ±0.2	1.83	2.80	0.64	21.1
M0908SQ-22N	2.56 ±0.15	2.14 ±0.15	1.83 ±0.2	2.18	2.80	0.64	24.7
M0908SQ-23N	2.24 ±0.15	2.14 ±0.15	1.83 ±0.2	1.90	2.80	0.64	19.2
M0908SQ-25N	2.97 ±0.15	2.14 ±0.15	1.83 ±0.2	2.57	2.80	0.64	27.6
M0908SQ-27N	2.97 ±0.15	2.14 ±0.15	1.83 ±0.2	2.57	2.80	0.64	28.7

Electrical Characteristics For M0806SQ/M0807SQ/M0908SQ Series

M0806SQ - 5N5 J

(1) (2) (3)

(1) Series Name

(2) Inductance value: (5N5: 5. 5nH)

(3) Inductance tolerance: J:±5%, G: ±2%

Part Number	Inductance [nH]	Tolerance	Q (typ)	SRF(typ) [GHz]	DCR (max) [mΩ]	Irms [A]
M0806SQ-5N5_	5.5	±5%, ±2%	60	4.9	3.4	2.9
M0806SQ-6N0_	6.0	±5%, ±2%	64	5.2	6.0	2.9
M0806SQ-8N9_	8.9	±5%, ±2%	90	4.3	7.0	2.9
M0806SQ-12N_	12.3	±5%, ±2%	90	4.8	8.0	2.9
M0806SQ-16N_	15.7	±5%, ±2%	90	4.4	9.0	2.9
M0806SQ-19N_	19.4	±5%, ±2%	90	4.0	10.0	2.9
M0807SQ-6N9_	6.9	±5%, ±2%	100	4.6	6.0	2.7
M0807SQ-10N_	10.2	±5%, ±2%	100	4.0	7.0	2.7
M0807SQ-11N_	11.2	±5%, ±2%	90	3.6	6.3	2.7
M0807SQ-14N_	13.7	±5%, ±2%	100	4.3	8.0	2.7
M0807SQ-17N_	17.0	±5%, ±2%	100	4.0	9.0	2.7
M0807SQ-22N_	22.0	±5%, ±2%	100	3.5	10.0	2.7
M0908SQ-8N1_	8.1	±5%, ±2%	130	5.2	6.0	4.4
M0908SQ-12N_	12.1	±5%, ±2%	130	4.3	7.0	4.4
M0908SQ-14N_	14.7	±5%, ±2%	90	3.0	7.2	4.4
M0908SQ-17N_	16.6	±5%, ±2%	130	3.4	8.0	4.4
M0908SQ-22N_	21.5	±5%, ±2%	130	3.7	9.0	4.4
M0908SQ-23N_	23.0	±5%, ±2%	120	2.6	10.0	4.4
M0908SQ-25N_	25.0	±5%, ±2%	130	2.5	10.0	4.4
M0908SQ-27N_	27.3	±5%, ±2%	130	3.2	10.0	4.4

- Inductance measured at 400 MHZ, 0.1 Vrms, 0 A
- Irms: Current that causes a 20°C temperature rise from 25°C ambient.
  This information is for reference only and does not represent absolutemaximum ratings.
- Resistance to soldering heat: Max three 40s reflows at 260C, parts cooled to room temperature between cycles.