

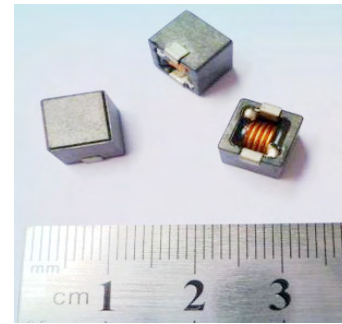


QSS0807 Series

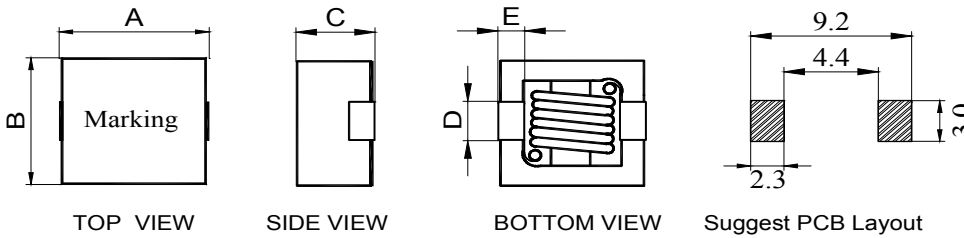


1. Features:

- Ferrite based SMD Inductor with lower core loss for high frequency application.
- Inductance Range: 0.47uH to 10uH. Custom values are welcomed.
- High current output chokes, up to 25.5 Amp.
- Ideal for desktop computers, servers, workstations, VGA card, VRMs and telecommunication equipment application;
- 8.7x 8.2x 7.2mm package compact size.
- Operating Temperature Range -40C to + 125°C; RoHs and HF compliance



2. Mechanical Dimension(Unit:mm):



Type	QSS0807
A	8.4±0.3
B	7.9±0.3
C	7.0±0.2
D	2.3±0.2
E	1.5±0.2

3. Electrical Characteristic of QSS0807 Series:

Part Number	OCL (uH) ±15%	DCR (mΩ) ±12% or 15%	Isat (A) Max@25°C	L@Isat (uH) Typ.	Irms (A) @25°C	L @ Irms (uH) Typ.
QSS0807-R47LHF	0.47	2.45 , 12%	25.5	0.409	16.0	0.468
QSS0807-R76LHF	0.76	3.4 , 12%	22.5	0.636	14.0	0.754
QSS0807-1R0LHF	1.0	4.8 , 12%	19.0	0.936	15.0	0.983
QSS0807-1R3LHF	1.3	3.6 , 12%	11.5	1.100	14.0	0.752
QSS0807-1R8LHF	1.8	4.7 , 12%	11.0	1.490	12.0	1.380
QSS0807-2R2LHF	2.2	5.8 , 12%	10.0	1.893	11.5	1.574
QSS0807-3R0LHF	3.0	7.7 , 12%	8.0	2.500	10.0	2.030
QSS0807-3R7LHF	3.7	9.6 , 12%	7.5	3.182	9.5	2.370
QSS0807-4R7LHF	4.7	12.6 , 12%	6.0	4.000	8.0	3.070
QSS0807-6R8LHF	6.8	22.7 , 15%	5.5	5.600	6.0	5.010
QSS0807-8R2LHF	8.2	31.4 , 15%	4.7	7.076	5.2	6.043
QSS0807-100LHF	10.0	43.0 , 15%	4.6	8.610	4.6	8.610

Note:

1. OCL (Open Circuit Inductance) and L@ Irms and L @Isat are measured at: 100KHz, 1.0V @ 25°C.
2. Isat: DC current that causes inductance to drop by approximately 20% from OCL.
3. Irms: DC current that causes an approximate temperature rise (ΔT) of 40°C
4. OCL may increase by 20% at 125°C and 30% of Isat derating shall apply at ambient temperature of 125°C.

