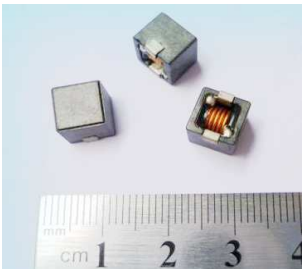
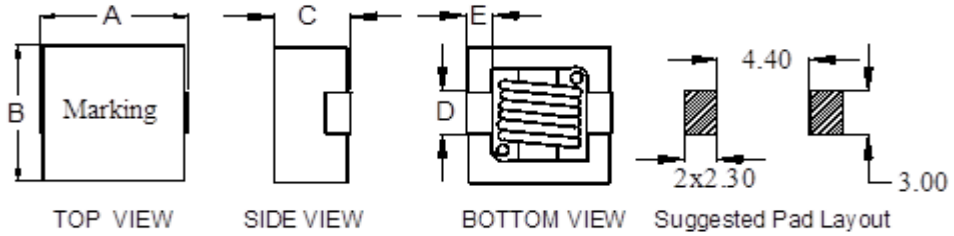
QSS0807 Series

1. Features:

· Ferrite based SMD Inductor with lower core loss at 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 -40°C to + 125°C; RoHs & HF compliance .



2. Mechanical Dimension(Unit:mm):



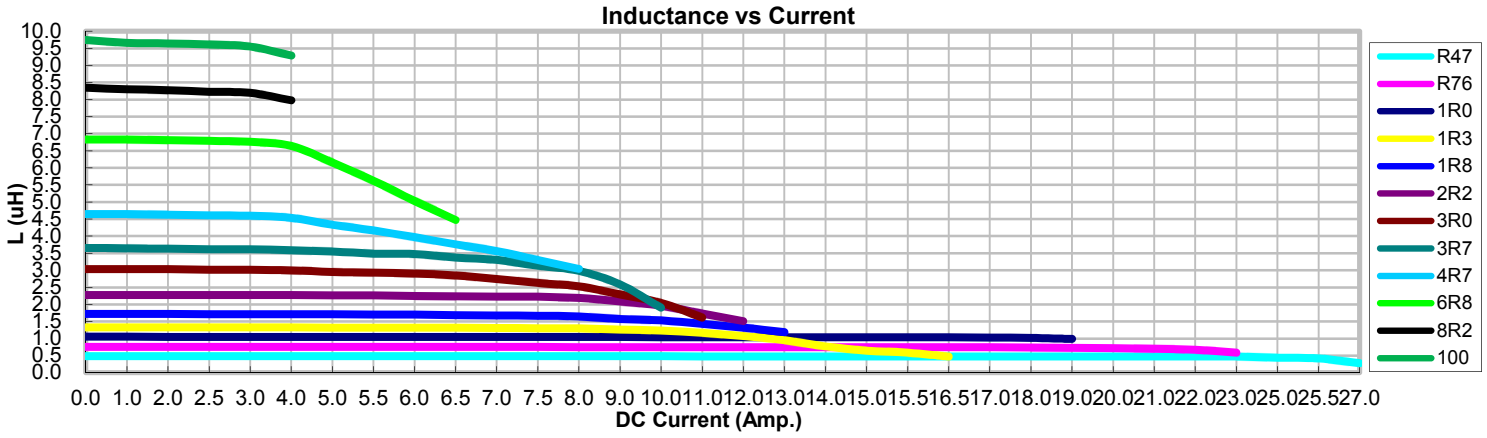
Type	QSS0807
A	8.40 ± 0.30
B	7.90 ± 0.30
C	7.00 ± 0.20
D	2.30 ± 0.20
E	1.50 ± 0.20

3. Electrical Characteristic of QSS0807 Series:

Part Number	Inductance (uH) ±15%	DCR (mΩ) ±12% or 15%	Isat (A) Max@25℃	L@Isat (uH) Typ.	Irms (A) @25℃	L @ Irms (uH) Typ.
QSS0807-R47LHF	0.47	2.45 , 12%	25.50	0.409	16.00	0.468
QSS0807-R76LHF	0.76	3.40 , 12%	22.50	0.636	14.00	0.754
QSS0807-1R0LHF	1.00	4.80 , 12%	19.00	0.936	15.00	0.983
QSS0807-1R3LHF	1.30	3.60 , 12%	11.50	1.100	14.00	0.752
QSS0807-1R8LHF	1.80	4.70 , 12%	11.00	1.490	12.00	1.380
QSS0807-2R2LHF	2.20	5.80 , 12%	10.00	1.893	11.50	1.574
QSS0807-3R0LHF	3.00	7.70 , 12%	8.00	2.500	10.00	2.030
QSS0807-3R7LHF	3.70	9.60 , 12%	7.50	3.182	9.50	2.370
QSS0807-4R7LHF	4.70	12.60 , 12%	6.00	4.000	8.00	3.070
QSS0807-6R8LHF	6.80	22.70 , 15%	5.50	5.600	6.00	5.010
QSS0807-8R2LHF	8.20	31.40 , 15%	4.70	7.076	5.20	6.043
QSS0807-100LHF	10.00	43.00 , 15%	4.60	8.610	4.60	8.610

Note:

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



US 1 914 347 2474 ●Taiwan 886 972 022 388 ●Shenzhen 86 755 8418 6263 ●Shanghai 86 21 5424 5141 ●HK 852 9688 9767
Sales@inter-technical.com www.inter-technical.com , Rev.C, Dec.18, 2013