



QS111109 Series

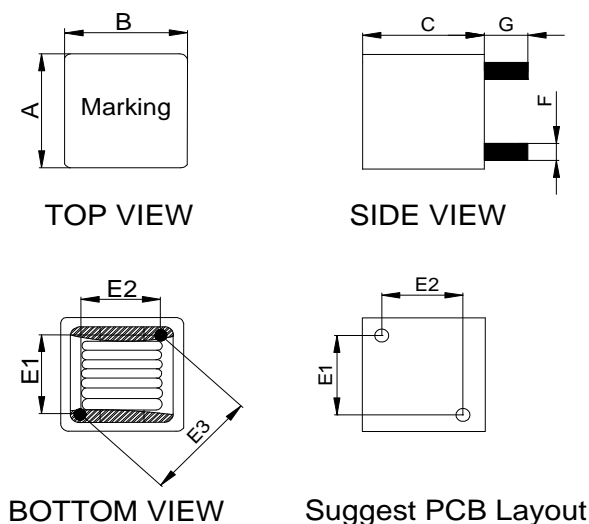


1. Features:

- Inductor with lower core loss for high frequency application.
- Inductance Range:0.30uH to 2.5uH. Custom values are welcomed.
- High current output chokes, up to 63 Amp.
- Ideal for desktop computers,servers,workstations,VGA card ,High-End switches and routers,Voltage-regulator modules & High Density Board Design.
- Very low DC resistance and compact size,high performance,low cost.
- Operating Temperature Range -55°C to + 130°C; RoHs & HF compliance



2. Mechanical Dimension(Unit:mm):



Type	QS111109	
A	11.7 (Max.)	
B	11.7 (Max.)	
C	9.5 (Max.)	
E1	(R30~1R0)	6.2 ± 0.5
	(1R2~1R5)	6.5 ± 0.5
	(2R0~2R5)	6.9 ± 0.5
E2	(R30~1R0)	6.3 ± 0.5
	(1R2~1R5)	6.0 ± 0.5
	(2R0~2R5)	6.5 ± 0.5
E3	(R30~1R0)	8.8 ± 0.5
	(1R2~1R5)	8.8 ± 0.5
	(2R0~2R5)	9.5 ± 0.5
F	See below table	
G	3.5 ± 0.5	

3. Electrical Characteristic of QS111109 Series:

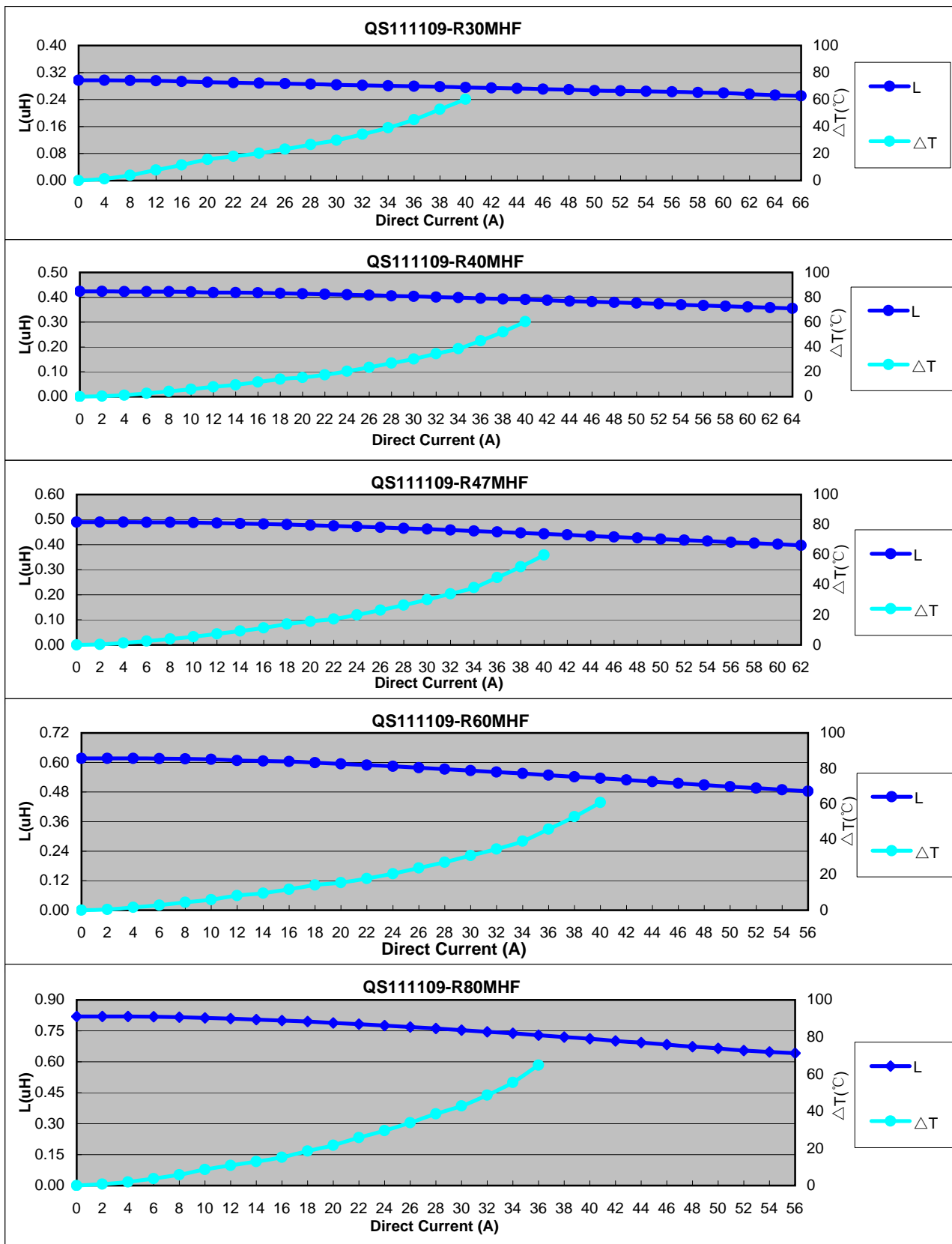
Part Number	OCL (uH) ±20%	DCR (mΩ) ±8%	Isat (A) @25°C	L@Isat (uH) Typ.	Irms (A) @25°C	L@Irms (uH) Typ.	Dimension F (mm)
QS111109-R30MHF	0.30	0.80	63.0	0.257	34.0	0.284	1.50
QS111109-R40MHF	0.40	0.80	60.0	0.340	34.0	0.377	1.50
QS111109-R47MHF	0.47	0.80	52.5	0.417	34.0	0.435	1.50
QS111109-R60MHF	0.60	0.80	43.0	0.512	34.0	0.540	1.50
QS111109-R80MHF	0.80	1.30	42.5	0.683	28.0	0.744	1.30
QS111109-1R0MHF	1.00	1.30	35.0	0.850	28.0	0.900	1.30
QS111109-1R2MHF	1.20	2.20	34.0	1.025	24.0	1.100	1.10
QS111109-1R5MHF	1.50	2.20	33.0	1.275	24.0	1.360	1.10
QS111109-2R0MHF	2.00	3.20	31.0	1.760	20.0	1.870	1.00
QS111109-2R5MHF	2.50	4.40	29.0	2.100	18.0	2.450	0.90

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 ;(Ta=25°C).
- 3.Irms: DC current that causes an approximate temperature rise (ΔT) of 40°C ;(Ta=25°C).
- 4.Inductance and Temperature rise Vs. DC bias curve,please see the next page to get more detail information.



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