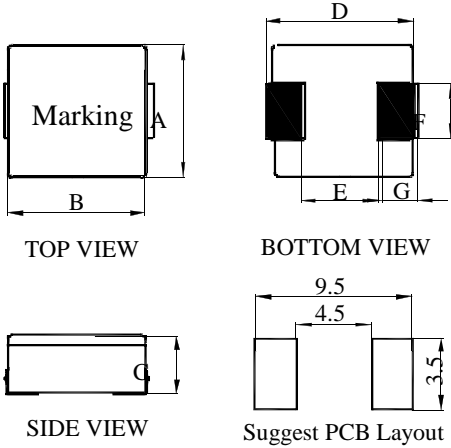


SC3018 Series SMD Power Inductor



Features:

- 0.30" foot print SMD high current inductor.
- Low profile - 4.5 mm Max. height.
- Ideal for DC to DC converter. VRM & high density board design.
- Low leakage flux, shielded inductor design.
- Suitable for IR reflow and wave solder process.
- Tape & Reel Quantity - 1100 pcs.



Electrical Specifications							
ITG Part Number	L ± 20% (μH)	DCR ± 7% (mΩ)	I _{rms} (Amp)	L @ I _{rms} (μH)	I _{max} (Amp)	L @ I _{max} (μH)	D Max (mm)
SC3018-R22MHF	0.23	0.75	29.0	0.18	44.0	0.15	9.3
SC3018-R47MHF	0.45	1.40	26.0	0.33	39.0	0.28	8.9
SC3018-R72MHF	0.71	2.00	23.0	0.53	34.0	0.42	8.9
SC3018-1R5MHF	1.48	5.20	14.0	1.14	22.0	0.93	8.3
SC3018-2R6MHF	2.55	8.90	12.0	1.85	17.0	1.57	8.3
SC3018-4R7MHF	4.70	16.50	9.1	3.33	6.5	3.50	7.7

Note:

1. Test condition: 300 kHz, 0.1 V, 25 °C.
2. I_{rate}: DC current rating at 40° C temperature raise (typical).
3. I_{max}: DC Current rating at 100°C temperature raise (typical).
4. Operating temperature: -55 °C ~150 °C.

Mechanical Dimensions (Unit: mm)						
A	B	C	D	E	F	G
± 0.3	± 0.3	Max.	Max.	Ref.	Ref.	Ref.
7.4	7.4	4.5	See Table Above	5.2	2.8	1.3

SC3018 Family DC Bias Curve

