

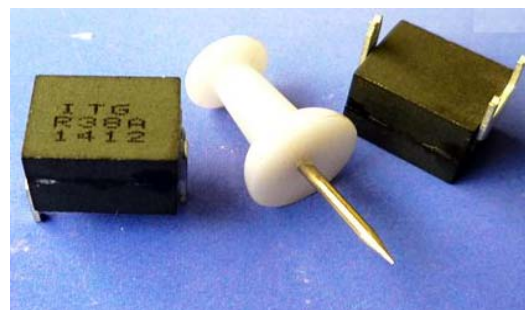


SLD47438 Series



1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:330nH to 380nH , Custom values are welcomed.
- High current output chokes, upto 40.0 Amp with approx. 20% roll off.
- Low Profile 10.70mm Max. height .
- Foot Print 12.00 x 7.90 mm Max.
- Perfect for high density designs with limited board space.
- Saves application board area when compared to standard design approach.
- Operating frequency up to 1 MHz application.
- Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .

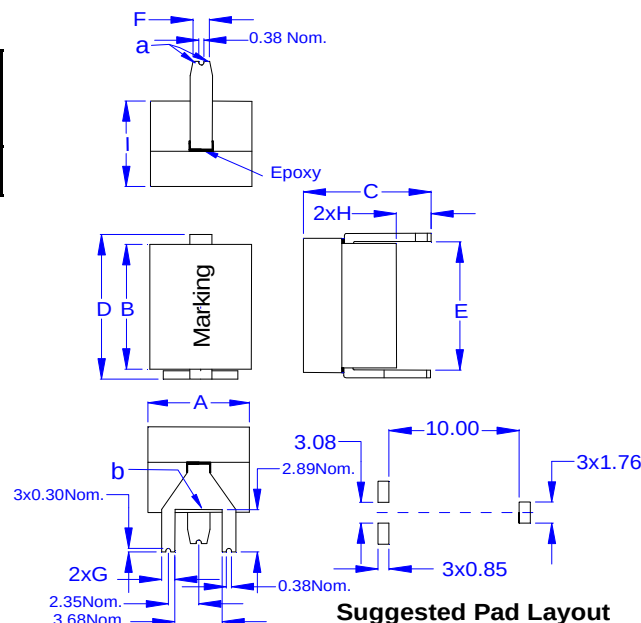


2. Electrical Characteristic of SLD47438 Series:

Part Number	OCL ¹ (nH) ± 10%	DCR ³ (mΩ) ± 7.0%	Isat1 ¹ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Isat4 ⁴ (A) @125°C	Irms ⁵ (A) @25°C
SLD47438A-R33KHF	330.00	0.41	40.00	37.00	34.00	31.00	39.00
SLD47438A-R34KHF	340.00	0.41	38.00	35.00	32.00	29.00	39.00
SLD47438A-R38KHF	380.00	0.41	29.00	27.50	25.00	24.50	39.00

3. Mechanical Dimension(Unit:mm):

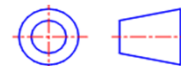
A (Max.)	B (Max.)	C (Max.)	D (Max.)	E ± 0.30	F ± 0.20	G ± 0.20	H (Min.)	I (Max.)
7.90	10.80	10.70	12.00	10.60	1.26	1.02	3.00	7.30



Note:

- 1>.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0Adc ,at 25°C.
- 2>.L @ Isat and L @ Irms Test condition:100KHz,0.1Vrms ; (Ta=25°C).
- 3>.The nominal DCR is measured from point "a" to point "b",as shown above on the mechanical drawing.
- 4>.Isat1,Isat2,Isat3 & Isat4 : DC current that will cause inductance to drops approximately by 20% ;
- 5>. Irms: DC current for an approximate temperature rise of 40°C without core loss,.Derating is necessary for AC currents. PCB pad layout,trace thickness and width,air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 130°C under worst case operating conditions verified in the end application.

Third Angle Projection:





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4. Inductance Characteristics (Inductance vs. Current):

