

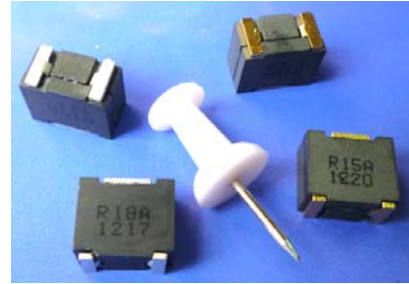


SLA40356 Series



1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Custom values are welcomed.
- High current output chokes, upto 66.0 Amp with approx. 20% roll off.
- Low Profile 9.0mm Max. height .
- Foot Print 10.2 x 5.75 mm Max.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 1 MHz application.
- Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .



2. Electrical Characteristic of SLA40356 Series:

Part Number	Inductance (uH) ±10%	DCR (mΩ) ± 5.0%	Isat ¹ (A) @25°C	Isat ² (A) @75°C	Isat ³ (A) @100°C	Irms (A) @25°C
SLA40356A-R15KHF	0.15	0.29	66.0	64.0	61.0	53.0
SLA40356B-R15KHF	0.15	0.32	66.0	64.0	61.0	50.0
SLA40356AG-R15KHF	0.15	0.29	66.0	64.0	61.0	53.0
SLA40356BG-R15KHF	0.15	0.32	66.0	64.0	61.0	50.0
SLA40356A-R18KHF	0.18	0.29	60.0	56.0	52.0	53.0
SLA40356B-R18KHF	0.18	0.32	60.0	56.0	52.0	50.0
SLA40356AG-R18KHF	0.18	0.29	60.0	56.0	52.0	53.0
SLA40356BG-R18KHF	0.18	0.32	60.0	56.0	52.0	50.0

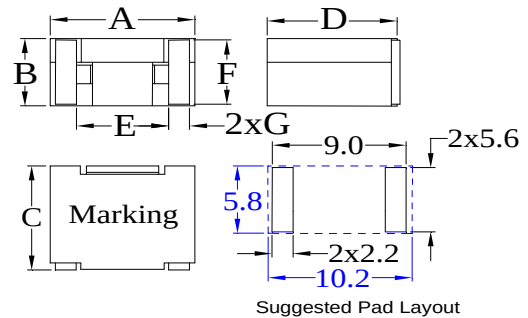
P/N code "G": Gold plated pad.

3. Mechanical Dimension (Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
10.20	5.75	9.00	8.70	5.90	5.00	1.45

Note:

- 1>.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0A_{dc} ,at 25 °C.
 - 2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat ;(Ta=25°C).
 - 3>.Isat¹:Isat² & Isat³ : DC current that will cause inductance to drops approximately by 20% ;
 - 4>. 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.
- 5>.The nominal DCR is measured from point "a" to point"b",as shown above on the mechanical drawing.



4. Inductance Characteristics (Inductance vs. Current):

