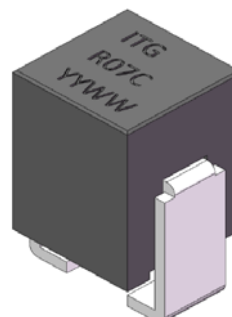




AHD3032C Series



1. Features of AHD3032C Series :

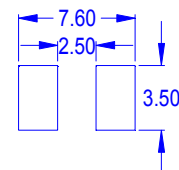
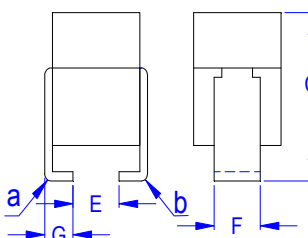
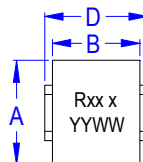
- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 70.0 nH to 200.0 nH , custom values are welcomed.
- High current output chokes, up to 70.0 Amp with approx. 20% roll off.
- Low Profile 10.00 mm Max. height.
- Foot Print 7.20 x 6.20 mm Max.
- Perfect for high density designs with limited board space.
- Operating frequency up to 1.0 MHz.
- Operating Temperature Range -55°C to + 130°C. RoHs & HF compliant.
- T & R Qtys: 500 pcs , 13" Reel.

2. Electrical Characteristic of AHD3032C Series:

ITG Part Number	OCL ¹ (nH) 15% or 20%	DCR ³ (mΩ) ± 7%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
AHD3032C-R07LHF	70.0 , 15%	0.22	70.00	65.00	60.00	39.00
AHD3032C-R08LHF	80.0 , 15%	0.22	65.00	61.00	56.00	39.00
AHD3032C-R09LHF	90.0 , 15%	0.22	54.00	50.00	46.00	39.00
AHD3032C-R10LHF	100.0 , 15%	0.22	46.00	44.00	41.00	39.00
AHD3032C-R13LHF	130.0 , 15%	0.22	34.00	32.00	30.00	39.00
AHD3032C-R15MHF	150.0 , 20%	0.22	28.00	26.00	25.00	39.00
AHD3032C-R20MHF	200.0 , 20%	0.22	19.00	18.00	17.00	39.00

3. Mechanical Dimension(Unit:mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	± 0.20	± 0.35
6.20	6.20	10.00	7.20	3.10	3.00	1.85



Suggested Pad Layout

Part Marking:
Rxx x: Rxx is inductance value in uH(R:decimal point),
x is special code.
YYWW: Date Code

Third Angle Projection:



Note:

- 1> Open Circuit Inductance (OCL) test condition: 500KHz,0.25Vrms,0A_{dc} at 25°C.
- 2> L @ Isat and L @ Irms Test condition: 500KHz,0.25V_{rm} (Ta=25°C).
- 3> The nominal DCR is measured from point "a" and "a'" to point "b" and "b'",as shown above on the mechanical drawing (Ta=25°C).
- 4> Isat1,Isat2,& Isat3 : DC current that will cause inductance to drop 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 as verified in the end application.

• New York 1 914 347 2474 • Taipei 886 2 2698 8669 • Kaohsiung 886 7 350 2275

• Tokyo 81 568 85 2830 • Shenzhen 86 755 8418 6263 • Shanghai 86 21 5424 5141 • Hong Kong 852 9688 9767

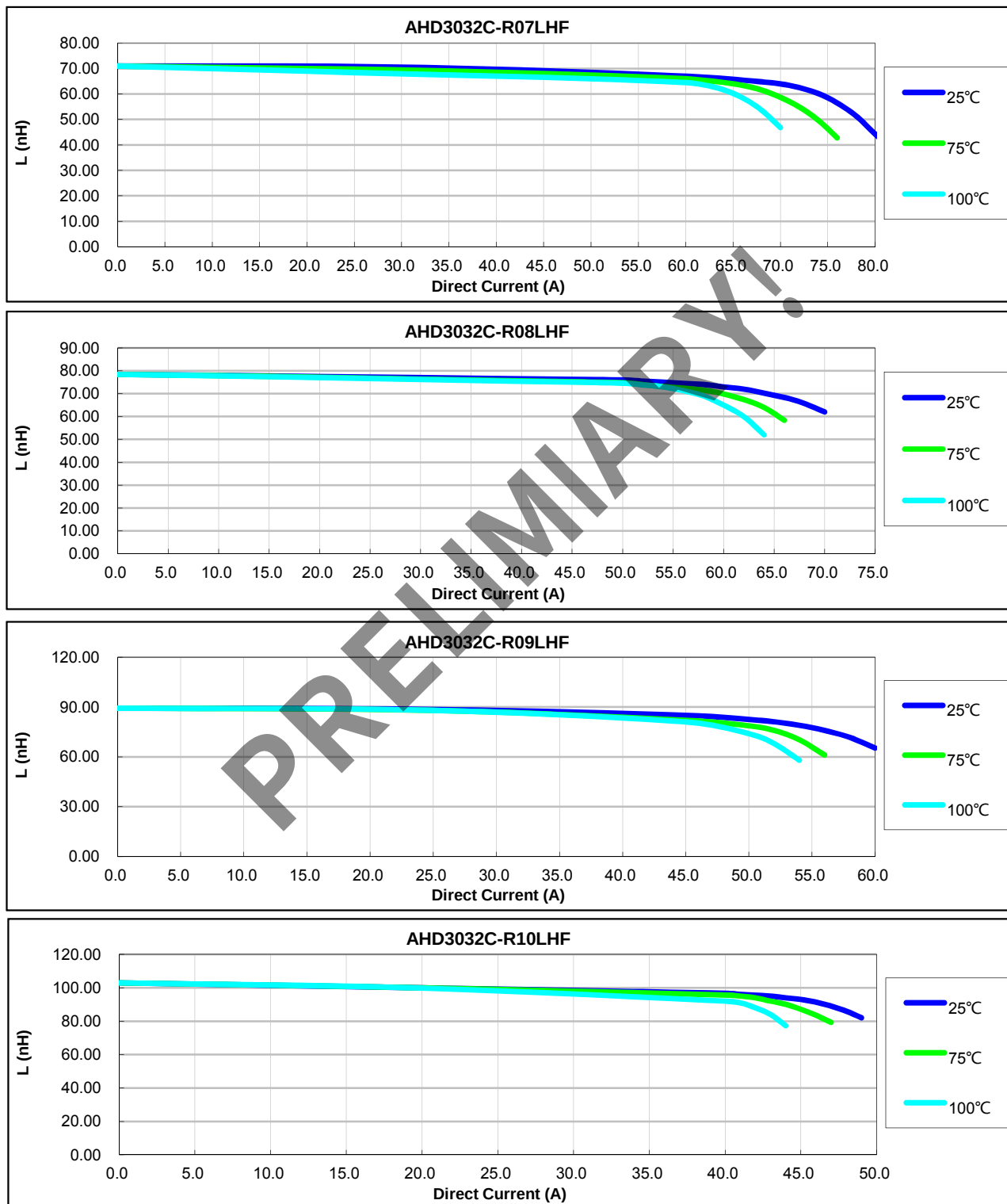
● sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision P1: March 29, 2016



AHD3032C Series



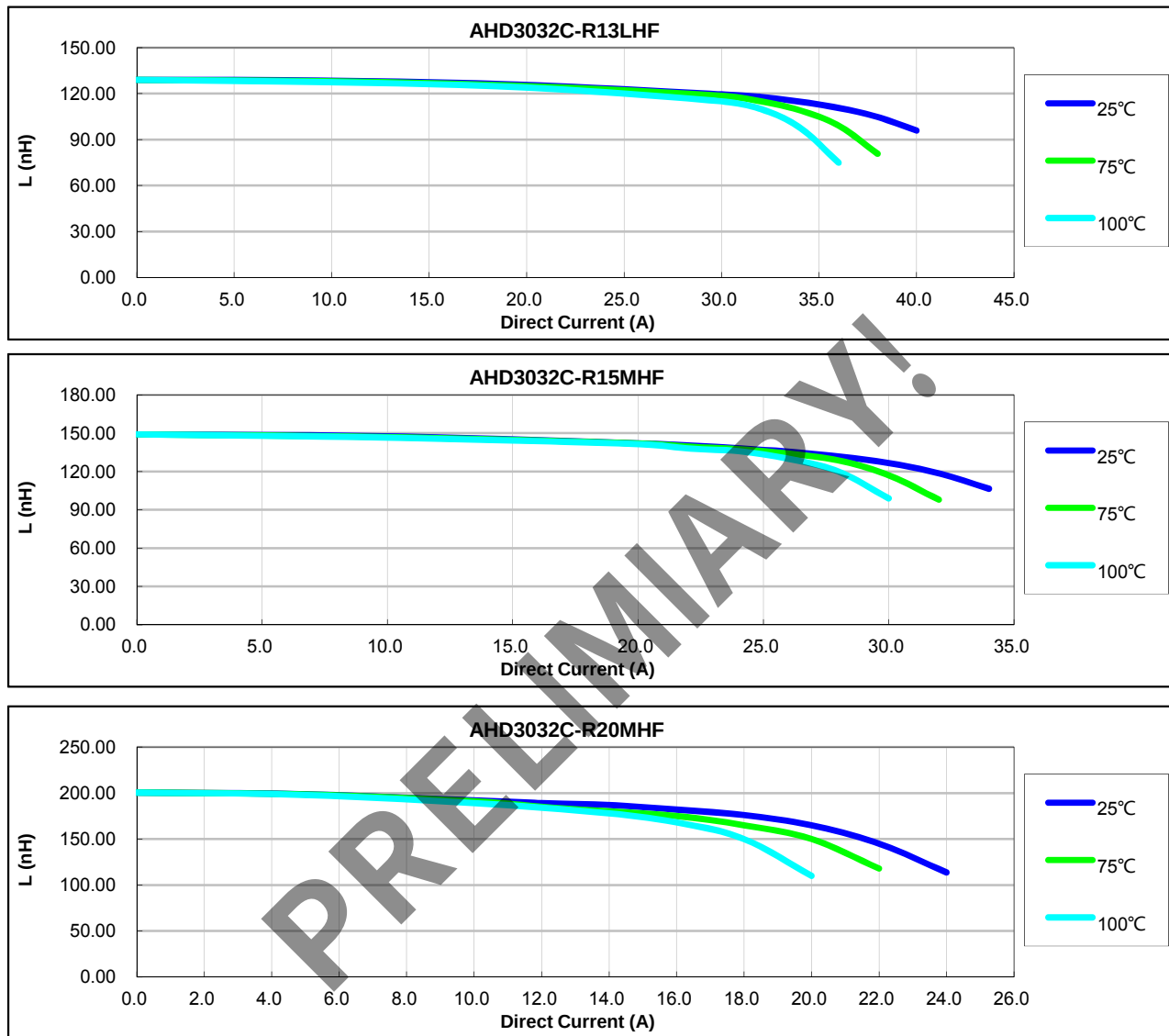
4. Inductance Characteristics (Inductance vs. Current):



• New York 1 914 347 2474 • Taipei 886 2 2698 8669 • Kaohsiung 886 7 350 2275
• Tokyo 81 568 85 2830 • Shenzhen 86 755 8418 6263 • Shanghai 86 21 5424 5141 • Hong Kong 852 9688 9767
● sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision P1: March 29, 2016



AHD3032C Series



- New York 1 914 347 2474 • Taipei 886 2 2698 8669 • Kaohsiung 886 7 350 2275
- Tokyo 81 568 85 2830 • Shenzhen 86 755 8418 6263 • Shanghai 86 21 5424 5141 • Hong Kong 852 9688 9767
- sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision P1: March 29, 2016