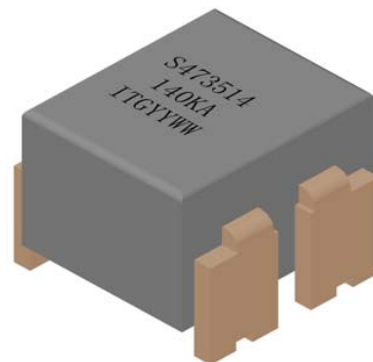


SLA473514 Series



1. Features of SLA473514 Series:

- Ferrite based SMD Inductor with lower core loss.
- Inductance:140nH, Custom values are welcomed.
- High current output chokes, upto 70.0 Amp with Max. 20% roll off.
- Low Profile 8.80 mm Max. height.
- 12.00 x 14.50 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 2.0 MHz.
- Operating Temperature Range -55°C to + 130°C. RoHs & HF compliant.
- T & R Qtys: 320 pcs , 13" Reel.

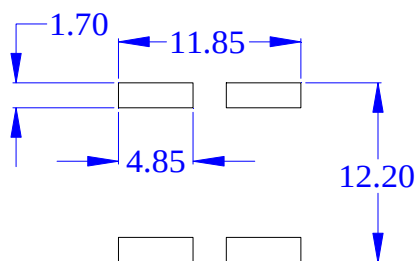
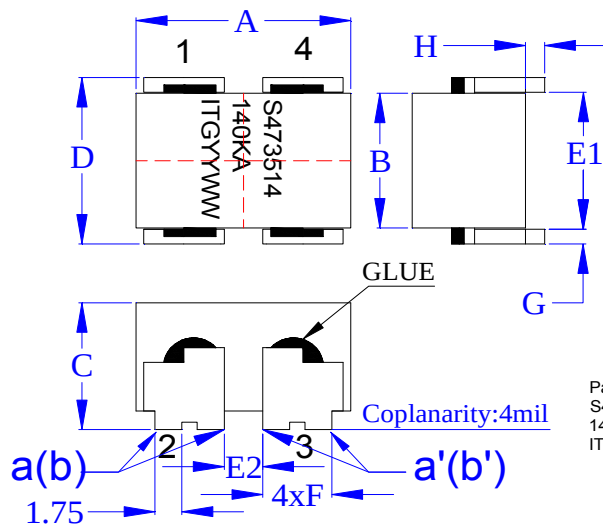


2. Electrical Characteristic of SLA473514 Series:

ITG Part Number	OCL(1-2&1-3) ¹ (nH) ± 10%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) max.	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Isat4 ⁴ (A) @125°C	Irms ⁵ (A) @25°C
SLA473514A-140K	140.00	100.80	0.125	70.00	65.00	62.00	60.00	52.00

3. Mechanical Dimension(Unit:mm):

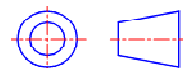
A (Max.)	B (Max.)	C (Max.)	D (Max.)	E1 ± 0.20	E2 ± 0.30	F ± 0.30	G ± 0.10	H (Min.)
14.50	9.35	8.80	12.00	9.30	2.50	4.50	1.00	1.19



Suggested PAD Layout

Part Marking:
S473514: part size.
140KA:140 is inductance value in nH,K is tolerance, A is special code.
ITGYWW: ITG logo and YYWW is date code

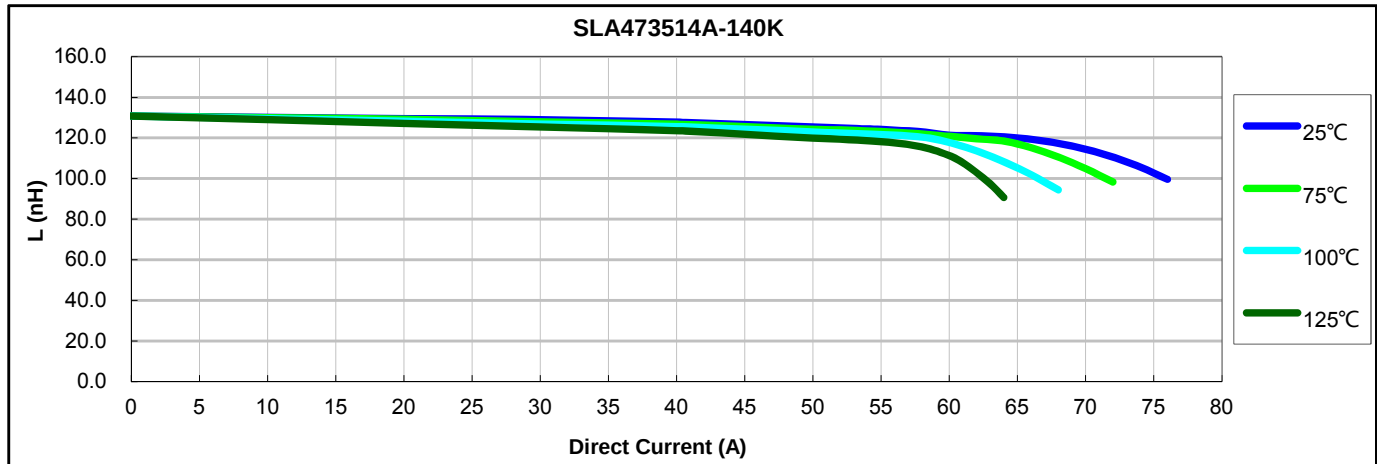
Third Angle Projection:



Notes:

- 1> Open Circuit Inductance (OCL) test condition: 500KHz, 0.25Vrms, 0Adc at 25°C.
- 2> L @ Isat and L @ Irms Test condition: 500KHz, 0.25Vrms (Ta=25°C).
- 3> The nominal DCR is measured from point"a" to point"b" or point"a'" to point"b'",as shown above on the mechanical drawing (Ta=25°C).
- 4> Isat1,Isat2,Isat3 & Isat4: 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.
- 6> Test Resistance from PIN1 to PIN4 or PIN2 to PIN3: over 50 MΩ. Test instrument is FLUKE 45 Dual Display Multimeter.

4. Inductance Characteristics (Inductance vs. Current):



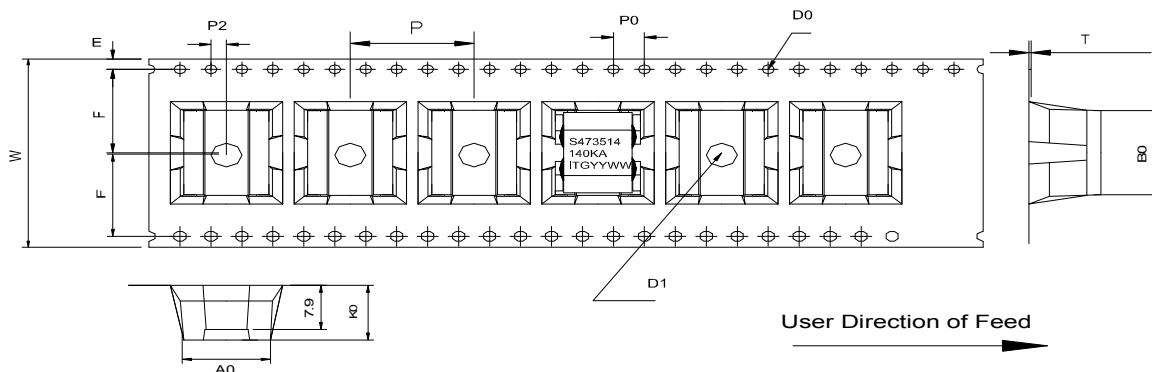
SPECIFICATION FOR APPROVAL



CUSTOMER	*	REV NO	B
DESCRIPTION	Power Bead	PAGE NO	1 of 1
PART NO	SLA473514 Series	DATE	2016.04.05

1. PACKAGE SPECIFICATION.(UNIT:mm)

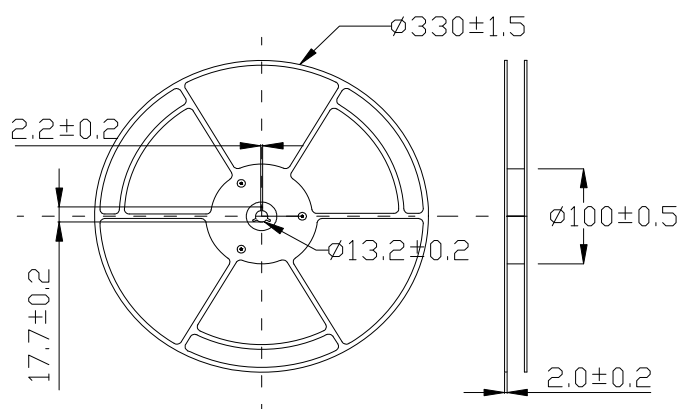
(1).ENCAPSOLATION MODE



(2).DIMENSION(mm)

A0	B0	K0	P0	P	P2	E	F	D0	D1	W	T
11.80±0.10	14.70±0.10	9.60±0.10	4.0±0.1	20.00±0.10	2.00±0.10	1.75±0.10	14.20±0.10	φ1.5±0.1-0.0	2.00 Min.	32.00+0.30/-0.10	0.50±0.05

(3).REEL SIZE



(4).PACKAGE MODE

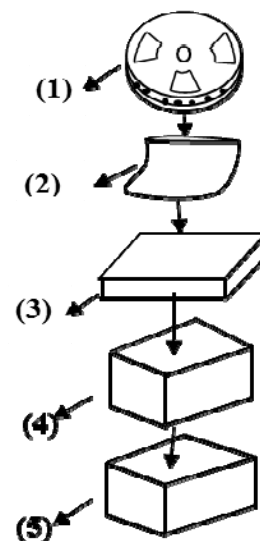
320PCS/Reel

1Reel/Bag

1 Bag/Small Box

4Small Boxes/Middle Box

1Middle Box/Outer Box



(5).PACKAGING LIST

NO.	PACKAGING PART	REFERENCE DIMENSION	MATERIAL	QUANTITY
1	Reel	13"	Plastic	320PCS/Reel
2	Bag	450x360x0.075 (mm)	Plastic	1 Reel/Bag
3	Small Box	340X335X45 (mm)	Paper	1Bag/Small Box
4	Middle Box	356X350X226 (mm)	Paper	4 Small Boxes/Middle Box
5	Outer Box	378X362X252 (mm)	Paper	1 Middle Box/Outer Box

(6).WEIGHT: N.W:5.40g/pcs TOTAL6.91Kg(APPROX),G.W:TOTAL12.51Kg(APPROX).

(7).Storage conditions: -40℃~85℃ ,75%RH (Max.).

APPROVED BY DavidWong	CHECKED BY Royi Luo	DRAWN BY Billy Tang
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