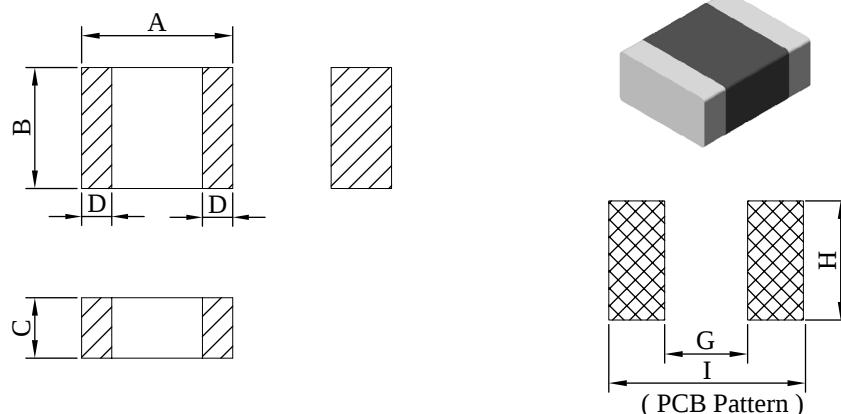


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.		EHI2510□□□□S□-□□□		
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I . Configuration and dimensions :



Unit : mm

A	B	C	D	G	H	I
2.50 ±0.20	2.00 ±0.20	1.00 max.	0.60 ±0.2	1.20 ref.	2.00 ref.	2.80 ref.

II . Materials :

- a . Metallic magnetic material
- b . Magnetically shielded
- c . Product weight : 22.5 mg (ref.)
- d . Products comply with RoHS' requirements
- e . Halogen free

III . General specification :

a . Storage Conditions :

Electrical Performance temp : -40°C ---- +85°C

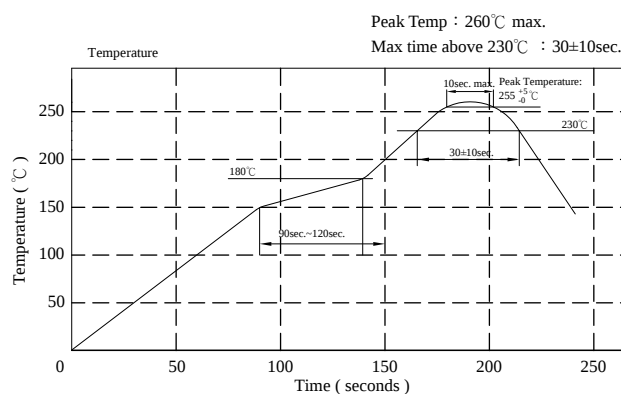
Terminal Solderability & Packages Material temp : +5°C ---- +40°C and RH 70% max.

b . Operating temp. : -40°C ---- +85°C

c . Resistance to soldering heat :

Solder temp. : 260°C

Dip time :10 sec. max.



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IV . Electrical characteristics :

DWG. No.	Inductance (μ H)	Test Freq. (Hz)	RDC ($m\Omega$) max.	Isat (A) max.	Irms (A) max.
EHI25101R0MSB-□□□	$1.00 \pm 20\%$	1M/1V	78	2.70	2.50
EHI25102R2MSB-□□□	$2.20 \pm 20\%$	1M/1V	156	1.90	1.50
EHI25103R3MSB-□□□	$3.30 \pm 20\%$	1M/1V	228	1.50	1.20
EHI25104R7MSB-□□□	$4.70 \pm 20\%$	1M/1V	300	1.30	1.00

- 1). Electrical specifications at 25°C
- 2). Isat base on $\Delta L/L0A=30\%$ max. (Approximately transient current)
- 3). Irms base on Temp. rise 40°C max.

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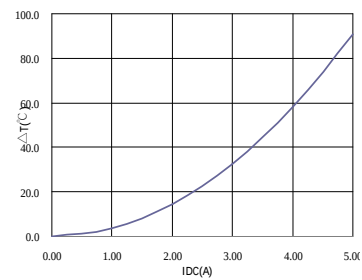
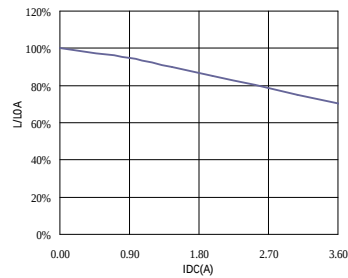
SPECIFICATION FOR APPROVAL

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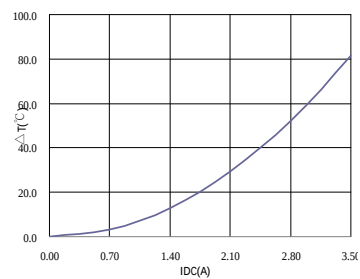
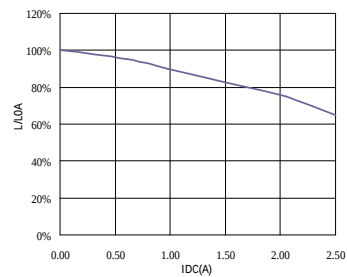
PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.		EHI2510□□□□S□-□□□		
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V . Curve :

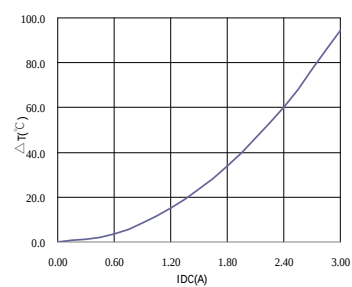
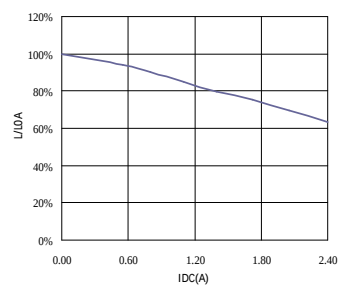
EHI25101R0MSB



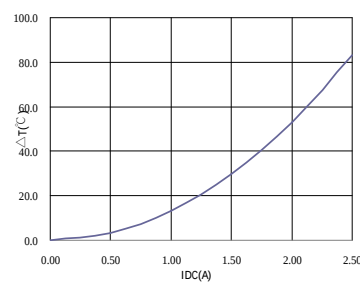
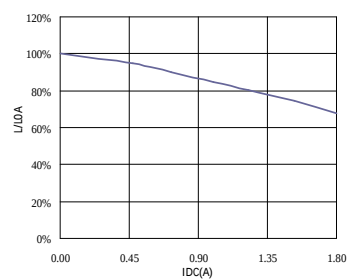
EHI25102R2MSB



EHI25103R3MSB



EHI25104R7MSB



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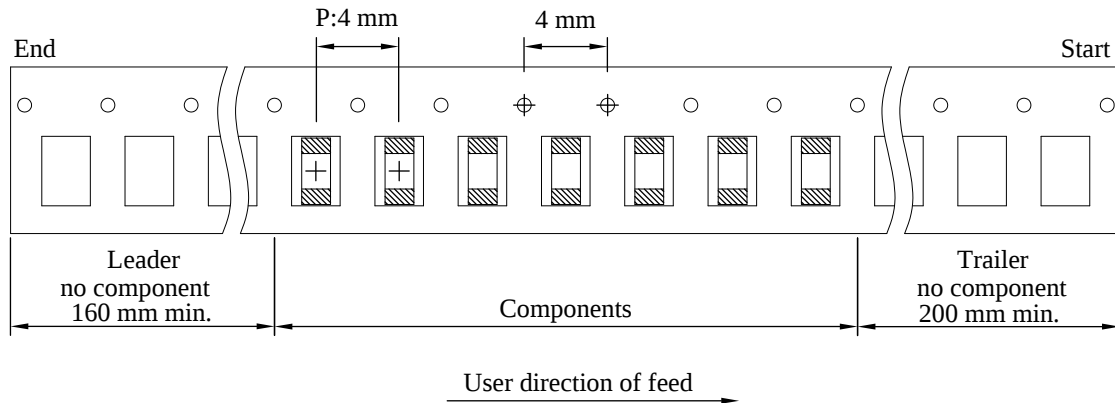
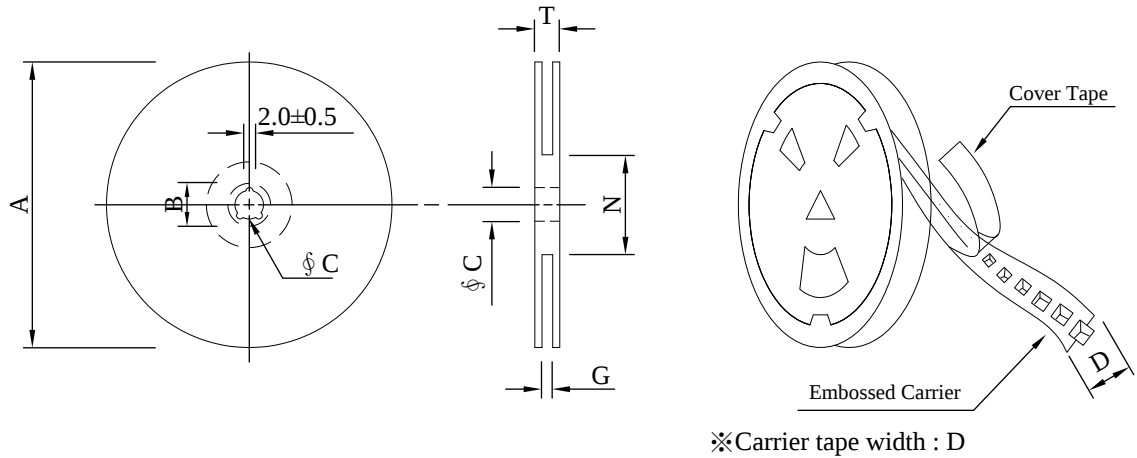
SPECIFICATION FOR APPROVAL

REF. :

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VI . Packaging information :

(1) Configuration



(2) Dimensions

Unit:mm

Style	A	B	C	D	G	N	T
07 - 08	180 ±2.0	21±0.8	13	8	8.4 ^{+2.0} ₋₀	60 ⁻⁰	14.4 ⁺⁰

(3) Q'TY & G.W. Per package

Code	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY(pcs)	G.W. (kg)	Size (cm)
B	3,000	155	07 - 08	150,000	7.0	41 x 39 x 22

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VII . Drawing number expression :

E	H	I	2	5	1	0	□	□	□	□	□	□	—	□	□	□
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Reference code

Appendix code 2 : Package

Appendix code 1 : Classification

Tolerance code

Electrical code

Dimension code

Type code

Appendix code 1 : Product Classification

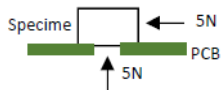
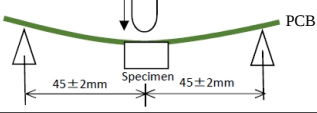
Appendix code 2 : Package Information

Code	Inner package	Cover tape	Carrier tape	Bag	Package Q'TY	Remark
B	T /R (Reel package)	Heat seal	Antistatic	Antistatic	3,000 pcs	

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Ⅷ . Reliability test :																					
Item	Test Condition			Test Specification																	
1.Adhesive Test	1.Test time:10±1sec. 2.Measure after removing pressure. 			1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.																	
2.Bending test	1.Bent depth : 2mm 2.PCB size : 40×100mm 3.PCB thickness : 1.0mm 4.Test time : 30sec. 			1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.																	
3.Vibration test	1.Frequency and Amplitued :10-55-10 Hz, 1.5 mm. 2.Direction:X, Y, Z 3.Test duration:2 hours for each direction, 6 hours in total.			1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.																	
4.Mechanical shock test	1.Peak acceleration : 1962m/s2 2.Duration of pulse : 6ms 3.times in each of 3(X, Y, Z) axes.,			1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.																	
5.Drop test	The specimen must be fixed on PCB. It must be equipped with instruments of which weight is 500g. Then it shall be fallen freely from 100cm height to rigid wood 3 times in each of three axes.			1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.																	
6.Resistance to Solder Heat	1.Reflow soldering method Preheat : 150℃~180℃ 90±30sec. Peak temp. : 255(+5/-0)℃ (230℃ min.,30±10sec.) 2.PCB thickness : 1.0mm 3.2 times			1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.																	
7.Solder ability	1. Electrode shall be immersed in flux at room temperature and then shall be immersed in solder bath after preheat. 2. Solder temp:245±5℃ 、 Dip time:3±0.5sec.			New solder shall cover 90% minimum of the surface immersed.																	
8.Temperature drift	Temperature: -40℃ ~ 85℃			Inductance temperature coefficient 1000ppm/℃ or less.																	
9. Low temperature test	1.Temp. : -40±3℃ 2. Load : 500±12Hr			1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.																	
10. Dry heat test	1.Temp. : +85±2℃ 2. Load : 500±12Hr			1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.																	
11. Humidity test	1.Temp. : +40±2℃ 2. Humidity : 90~95%RH 3. Load : 500±12Hr			1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.																	
12. Thermal shock test	1. Condition of 1 cycle <table border="1"><thead><tr><th>Step</th><th>Temp. (℃)</th><th>Duration (min.)</th></tr></thead><tbody><tr><td>1</td><td>-40±3</td><td>30±3</td></tr><tr><td>2</td><td>Room temp.</td><td>Within 3</td></tr><tr><td>3</td><td>+125±2</td><td>30±3</td></tr><tr><td>4</td><td>Room temp.</td><td>Within 3</td></tr></tbody></table> 2. Load : 100±12cycle			Step	Temp. (℃)	Duration (min.)	1	-40±3	30±3	2	Room temp.	Within 3	3	+125±2	30±3	4	Room temp.	Within 3	1.No mechanical or electrical damage. 2.Inductance shall not change more than ±10%.		
Step	Temp. (℃)	Duration (min.)																			
1	-40±3	30±3																			
2	Room temp.	Within 3																			
3	+125±2	30±3																			
4	Room temp.	Within 3																			

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IX . Change history :

DATE/REV.	DISCRIPTION	DRAWN	CHECKED	APPROVED
20191121-A	New Release	Lijuan Y	Cyrus	Roger
20200914-B	Modify the Unit : Kg → kg	Lijuan Y	Cyrus	Roger
20201014-C	Delete the R47 、 6R8 、 100 electrical characteristics	Lijuan Y	Cyrus	Roger

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