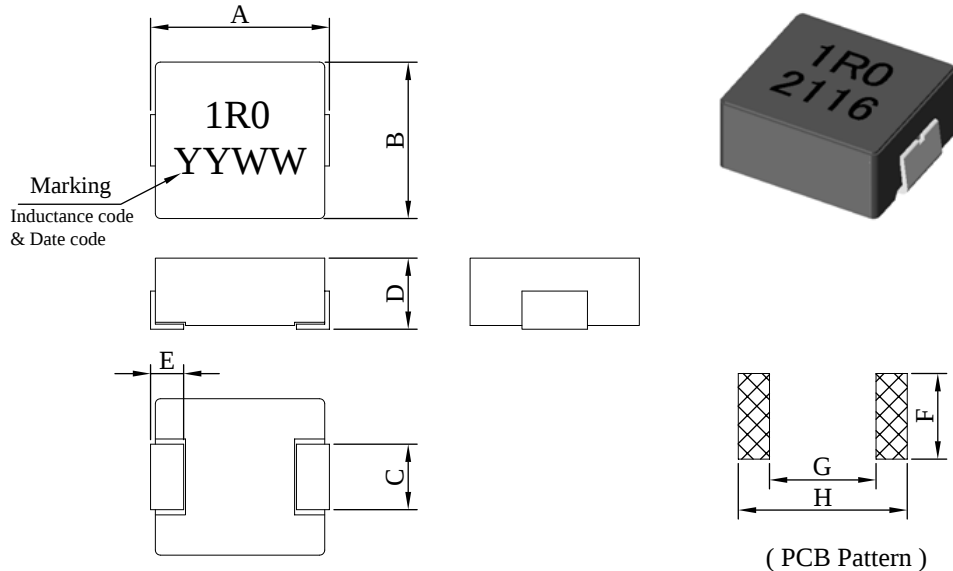


SPECIFICATION FOR APPROVAL

REF :

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I . Configuration and dimensions :



Unit : mm

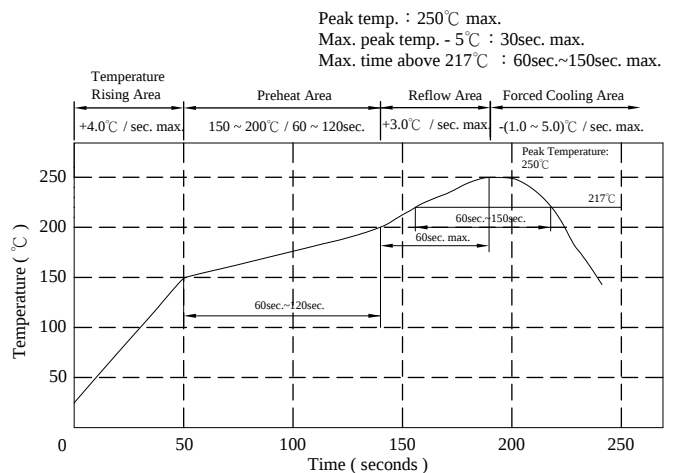
A	B	C	D	E	F	G	H
7.30 ±0.30	6.60 ±0.30	3.00 ±0.3	3.80 ±0.2	1.80 ±0.3	3.50 ref.	2.50 ref.	8.40 ref.

II . Description :

- a . Powder molding construction
- b . Magnetically shielded
- c . Wire : Polyester wire or equivalent
- d . Product weight : 1.00g (ref.)
- e . Products comply with RoHS' requirements
- f . Halogen free

III . General specification :

- a . Storage temp. : -40°C ----+125°C
- b . Operating temp. : -40°C ----+125°C
(Temp. rise included)
- c . Resistance to solder heat : 260°C.10 sec.



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IV . Electrical characteristics :

DWG No.	Inductance (μ H)	Isat (A) typ.	Irms (A) typ.	RDC ($m\Omega$)	
				max.	typ.
EHI0640R12YS□-□□□	$0.12 \pm 30\%$	64.00	32.00	1.00	0.70
EHI0640R15YS□-□□□	$0.15 \pm 30\%$	55.00	30.00	1.20	0.90
EHI0640R22MS□-□□□	$0.22 \pm 20\%$	34.00	25.00	2.10	1.85
EHI0640R33MS□-□□□	$0.33 \pm 20\%$	34.00	25.00	2.60	2.00
EHI0640R47MS□-□□□	$0.47 \pm 20\%$	28.00	23.00	3.40	3.00
EHI0640R68MS□-□□□	$0.68 \pm 20\%$	24.00	16.00	4.50	4.10
EHI06401R0MS□-□□□	$1.00 \pm 20\%$	22.00	14.00	8.00	6.80
EHI06401R5MS□-□□□	$1.50 \pm 20\%$	20.00	12.00	12.00	10.00
EHI06402R2MS□-□□□	$2.20 \pm 20\%$	14.00	9.00	14.00	11.50
EHI06403R3MS□-□□□	$3.30 \pm 20\%$	12.00	8.00	27.00	24.00
EHI06404R7MS□-□□□	$4.70 \pm 20\%$	11.00	6.00	32.50	28.00
EHI06406R8MS□-□□□	$6.80 \pm 20\%$	8.50	4.50	50.00	44.00
EHI0640100MS□-□□□	$10.00 \pm 20\%$	7.00	4.00	72.00	64.00
EHI0640150MS□-□□□	$15.00 \pm 20\%$	3.50	3.00	90.00	80.00
EHI0640220MS□-□□□	$22.00 \pm 20\%$	3.50	2.50	145.00	120.00
EHI0640330MS□-□□□	$33.00 \pm 20\%$	3.20	1.80	210.00	180.00
EHI0640470MS□-□□□	$47.00 \pm 20\%$	2.50	1.80	350.00	295.00

- 1). Electrical specifications at 25℃
- 2). Measured frequency of inductance is 100 kHz / 1V
- 3). Isat base on $\Delta L/L0A = 30\%$ typ. (Approximately transient current)
- 4). Irms base on Temp. rise 40℃ typ.

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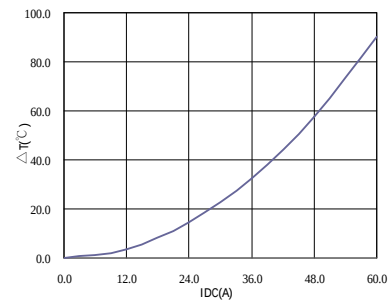
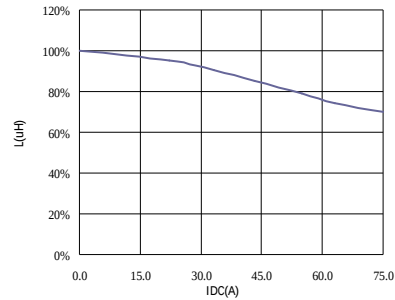
SPECIFICATION FOR APPROVAL

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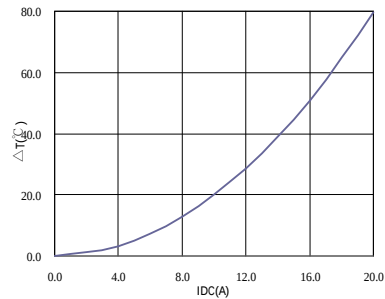
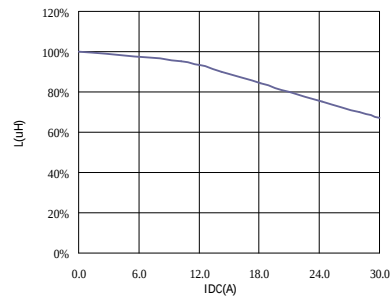
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V . Curve :

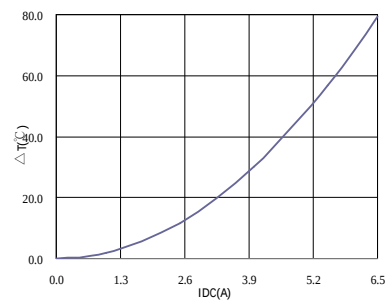
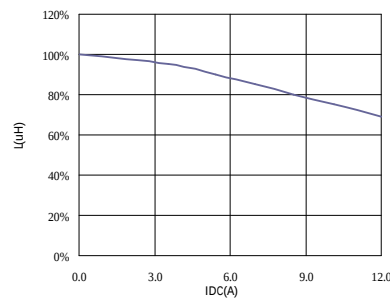
EHI0640R15YS□



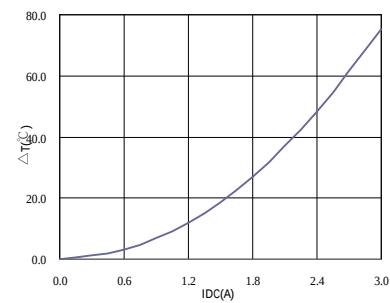
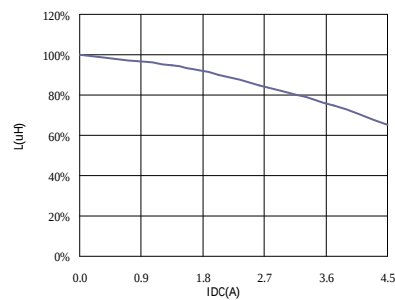
EHI06401R0MS□



EHI0640100MS□



EHI0640470MS□



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VI . Packaging information :

(1) Configuration

※Carrier tape width : D

(2) Dimensions

Unit:mm

Style	A	B	C	D	G
13 - 16	330	100 ±0.2	13 ^{+0.5} _{-0.2}	16	16.4 ⁺² ₋₀

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

Code	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (g)	Style	Q'TY (pcs)	G.W. (kg)	Size (cm)
B	1,000	1,100	13 - 16	12,000	18.0	38 x 37 x 22

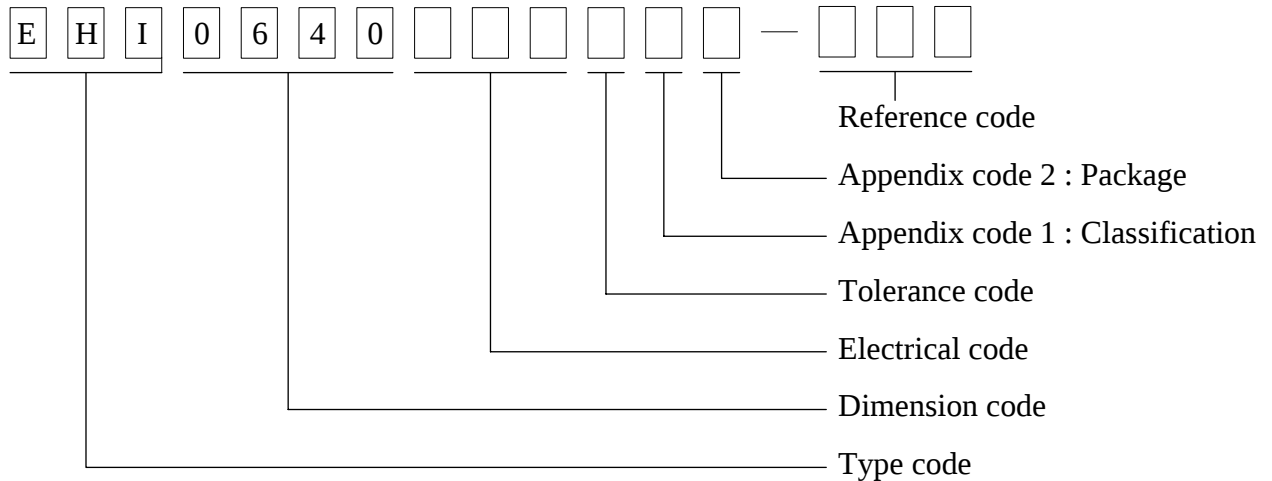
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VII . Drawing number expression :



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	1,000 pcs	

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VIII . Reliability test :						
Item	Reference documents	Test Condition		Test Specification		
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature: 125±2℃ 2.Time:96±2 hours.		1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.		
2.Temperature Cycling	JESD22-A 104	1.Temperature: -40℃ ~ +125℃ 2.Number of cycle:100 cycles 3.Dwell time:30 minutes		1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.		
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature : 85±2 ℃ 2.Humidity: 85% RH. 3.Time:96±2 Hours		1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.		
4.Operational Life	JESD22-A 108	1.Temperature: 125℃ (Temp. rise included) 2.Time:96±2 hours. 3.Rated current		1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.		
5.External Visual	JESD22-B 101 & MIL-STD-883 Method 2009	Inspect product constructions, marking and workmanship.		1.No pollution on the surface of products. 2.Clear marking. 3.No crack.		
6.Physical Dimensions	JESD22-B 100	Verify physical dimensions to the applicable product detail specification.		Per product specification standard		
7.Resistance to solvents	MIL-STD-202 Method 215	Immerse into solvent for 3±0.5 minutes & brush 10 times for 3 cycles.		1.No body change in apperaranace. 2.No marking blurred. 3.Inductance shall not change more than ±20%.		
8.Vibration Test	MIL-STD-202 Method 204	1.Frequency and Amplitued : 10-2000-10 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 ±20%.		
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210 & J-STD020D.1	1.Highest temperature : 250±5℃. 2.Time (temp. ≥ 217℃) : 60~150 Seconds. 3.IR reflow times : 3 times.		1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.		
10.Saturation Current	JIS C 6436 & User SPEC.	1.Applied rated current for 5 seconds. 2.Saturation current		Inductance shall not drop more than 30% typ.		
11.Over load	JIS C 6436 & User SPEC.	1.Applied one and half rated current for a period of 5 minutes. 2.Rated current		No electrical or mechanical damage		
12.Temperature Rise Current	JIS C 6436 & User SPEC.	1.Applied rated current for 10 minutes. 2.Temperature measure by digital surface thermometer. 3.Irms current		Surface temperature rise is less than 40℃ typ.		
13.Solderability Test	J-STD-002 & JESD22-B 102	1.Baking in pre-testing : 150±5℃ / 16Hours±30 min. 2.Peak temperature : 240±5℃ 3.Time (temp. ≥ 217℃) : 60~150 seconds. 4.IR reflow times : 1 time.		More than 95% soldering coverage min on terminations.		
14.Electrical Characteriazation	MIL-STD-202 Method 304 & User SPEC.	1.Operating temperature : -40℃~125℃ 2.Room temperature : 25℃.		1.No mechanical or electrical damage. 2.Inductance shall not change more than ±20%.		
15.Drop	CNS-C6354 & GB/T 2423.8	1.Products shall be mounted on SPEC. PCB and dropped down from a height of 1m 2.Drop total time : 6 times (Every side of sample drop 2 times)		1. Adhesion on PCB shall be enough. 2. Product appearance shall not break. 3. No electrical damage.		
16.Terminal Strength Test	IEC 60068-2-21	1.Apply push force to samples mounted on PCB. 2.Force of 1.8 kg for 60±1 seconds.		After test, inductors shall be no mechanical damage.		

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IX . Change history :

DATE/REV.	DISCRIPTION	DRAWN	CHECKED	APPROVED
20210406-A	New Release	Lijuan Y	Cyrus	Roger
20210412-B	Add the marking "Date code"	Lijuan Y	Cyrus	Roger

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