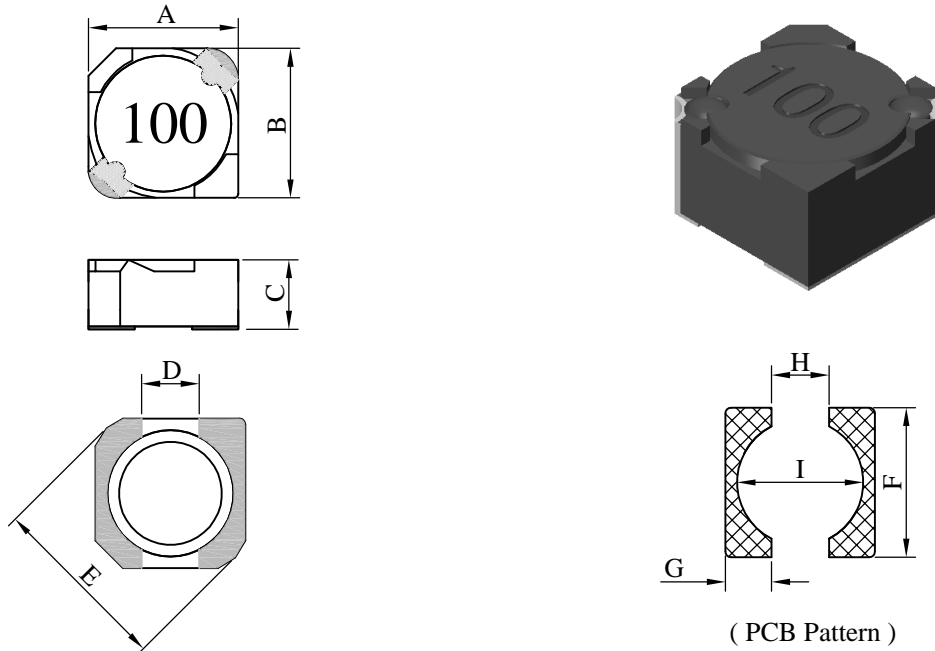


SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	DH4028□□□□F□-□□□		
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I . Configuration and dimensions :



Unit : m/m

A	B	C	D	E	F	G	H	I
5.00 max.	5.00 max.	2.80 max.	2.10 typ.	6.20 typ.	5.20 ref.	1.60 ref.	2.00 ref.	4.20 ref.

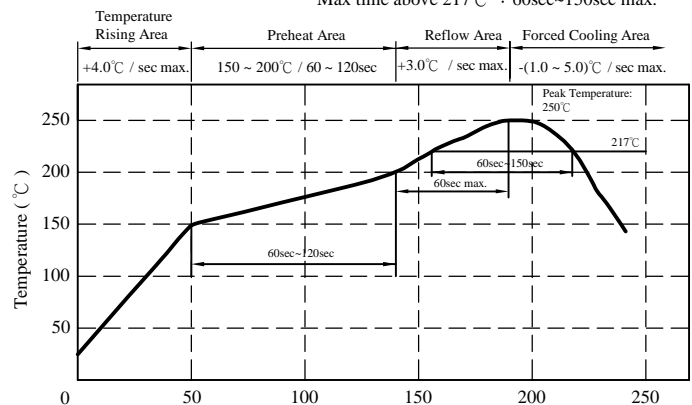
II . Description :

- a . Ferrite drum core construction.
- b . Magnetically shielded.
- c . Enamelled copper wire : H class
- d . Product weight : 0.250g (ref.)
- e . Moisture sensitivity Level 1
- f . Products comply with RoHS' requirements
- g . Halogen free available

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 : 250°C .10 secs.

Peak Temp : 250°C max.
Max. Peak Temp - 5°C : 30sec max.
Max time above 217°C : 60sec~150sec max.



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IV . Electrical characteristics :

DWG No.	Inductance (μ H)	RDC $m\Omega$		Isat (A)	Irms (A)
		typ.	max.		
DH40281R2YF□-□□□	1.2 \pm 30 %	12.3	17.0	3.04	4.82
DH40282R2YF□-□□□	2.2 \pm 30 %	17.4	23.0	2.32	3.78
DH40283R6YF□-□□□	3.6 \pm 30 %	25.6	35.0	1.82	2.93
DH40284R7YF□-□□□	4.7 \pm 30 %	29.8	40.0	1.58	2.63
DH40285R4YF□-□□□	5.4 \pm 30 %	34.9	47.0	1.49	2.39
DH40286R8YF□-□□□	6.8 \pm 30 %	43.2	58.0	1.37	2.25
DH40287R4YF□-□□□	7.4 \pm 30 %	46.7	63.0	1.28	2.16
DH40288R6YF□-□□□	8.6 \pm 30 %	51.5	70.0	1.22	2.12
DH4028100MF□-□□□	10.0 \pm 20 %	64.9	88.0	1.13	1.76
DH4028120MF□-□□□	12.0 \pm 20 %	74.2	100.0	0.99	1.62
DH4028150MF□-□□□	15.0 \pm 20 %	87.9	119.0	0.90	1.42
DH4028180MF□-□□□	18.0 \pm 20 %	104.0	136.0	0.85	1.28
DH4028220MF□-□□□	22.0 \pm 20 %	138.0	179.0	0.72	1.10
DH4028270MF□-□□□	27.0 \pm 20 %	152.0	197.0	0.68	1.06
DH4028330MF□-□□□	33.0 \pm 20 %	184.0	239.0	0.59	0.95
DH4028390MF□-□□□	39.0 \pm 20 %	218.0	272.0	0.57	0.90
DH4028470MF□-□□□	47.0 \pm 20 %	240.0	300.0	0.52	0.86
DH4028560MF□-□□□	56.0 \pm 20 %	278.0	348.0	0.45	0.81
DH4028680MF□-□□□	68.0 \pm 20 %	361.0	452.0	0.41	0.70
DH4028820MF□-□□□	82.0 \pm 20 %	442.0	552.0	0.39	0.59
DH4028101MF□-□□□	100.0 \pm 20 %	487.0	609.0	0.34	0.56

- 1). □ : Packaging information : □ Code
- 2). "-□□□" : Reference code
- 3). Electrical specifications at 25°C
- 4). Inductance Test Condition. : 100kHz / 0.1V
- 5). Irms base on Temp. rise 40°C typ.
- 6). Isat base on Δ L/L0A = 35% typ.

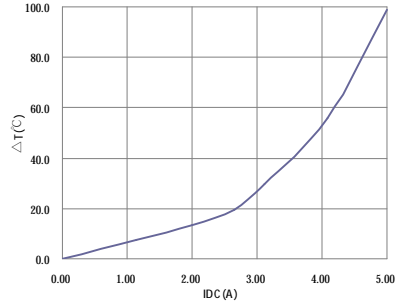
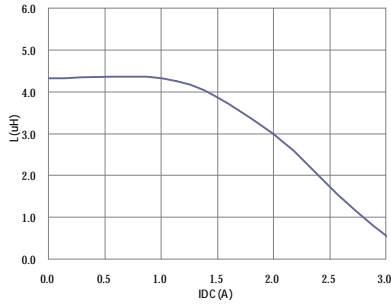
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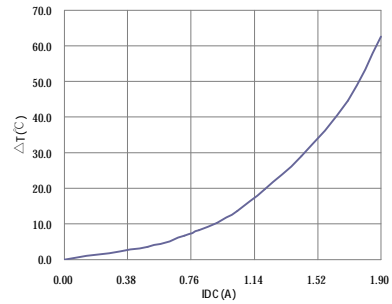
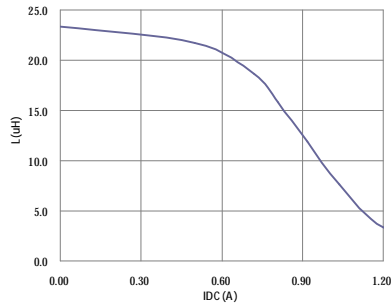
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V. Curve :

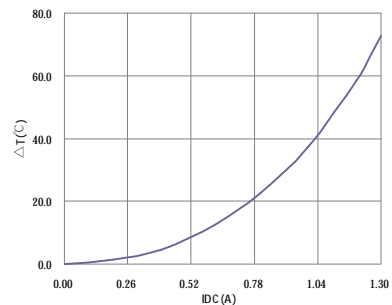
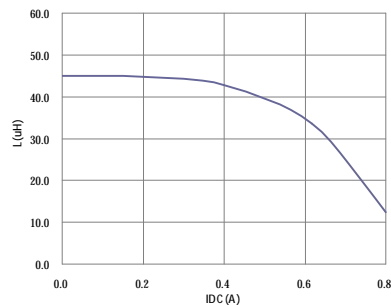
DH40284R7YF□



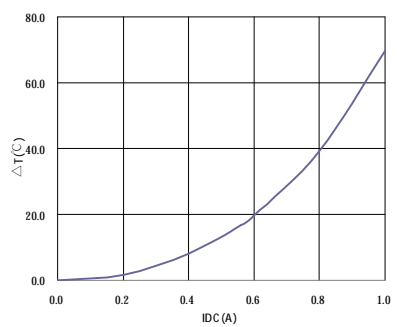
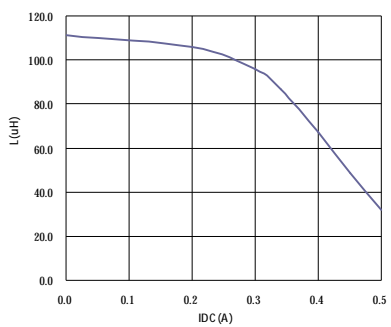
DH4028220MF□



DH4028470MF□



DH4028101MF□



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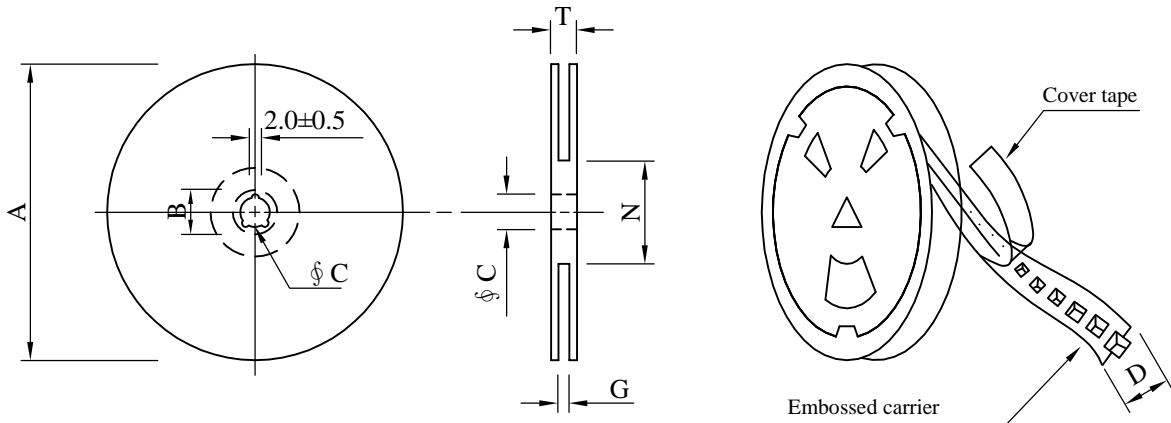
SPECIFICATION FOR APPROVAL

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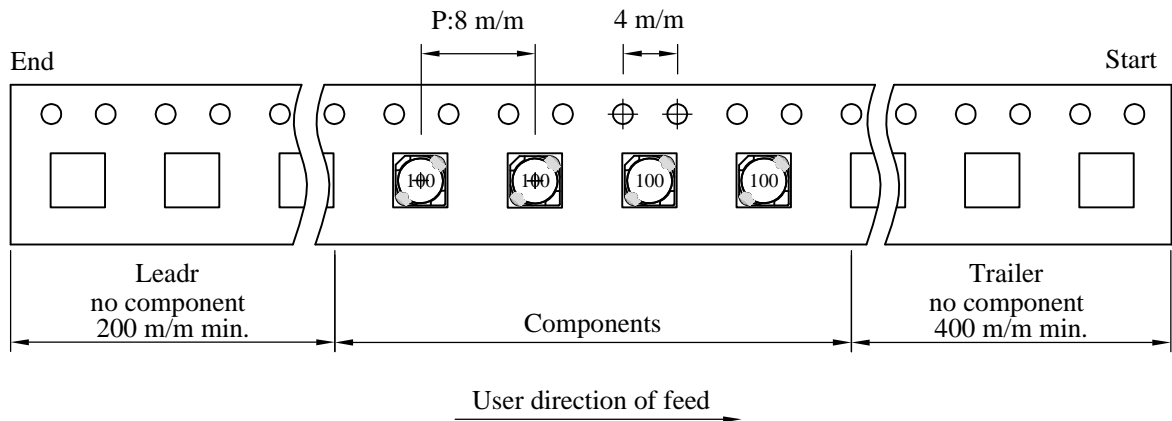
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VI . Packaging information :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13	12	14 +0	50 -0	16.5

(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	500	210	07 - 12	20,000	9.9	42 x 41 x 24

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VII . 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 cycle 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 appearance. 2.No marking blurred. 3.Inductance shall not change more than ±20%.
8.Vibration Test	MIL-STD-202 Method 204	1.Frequency and Amplitud : 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 Second. 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 second. 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 second. 4.IR reflow times : 1 times.	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 time (Every side of sample drop 2 time)	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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