SPECIFICATION FOR APPROVAL

REF. :

PROD. NAME	Shielded SMD Power Inductor	ABC'S DWG NO.	DH6022□□□□F□-□□□		
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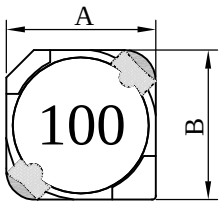
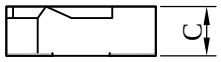
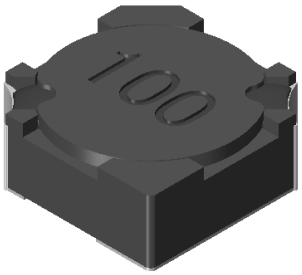
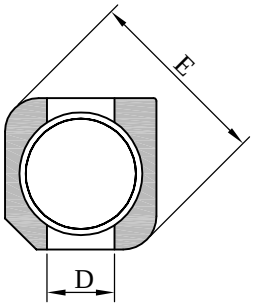
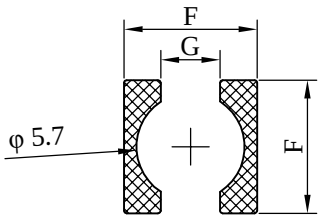
Ⅰ．Configuration and dimensions：











(PCB Pattern)

Unit：m/m

A	B	C	D	E	F	G
7.00 max.	7.00 max.	2.50 max.	2.70 ref.	7.80 ref.	7.20 ref.	2.50 ref.

Ⅱ．Description：

a．Ferrite drum core construction.

b．Magnetically shielded.

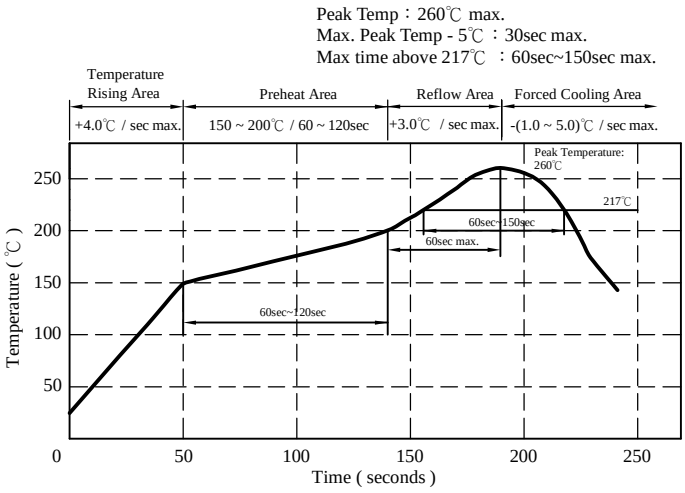
c．Enamelled copper wire：H class

d．Product weight： 0.400g（ref.）

e．Moisture sensitivity Level 1

f．Products comply with RoHS' requirements

g．Halogen free available



Ⅲ．General specification：

a．Storage temp.：-40℃ ----+125℃

b．Operating temp.：-40℃----+125℃
(Temp. rise included)

c．Resistance to solder heat：260℃.10 secs.

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Ⅳ．Electrical characteristics：

DWG No.	Inductance (μH)	RDC mΩ		Isat (A)	Irms (A)
		typ.	max.		
DH60222R2YF□-□□□	2.2 ±30 %	16	22	3.15	4.50
DH60223R3YF□-□□□	3.3 ±30 %	18	25	2.70	4.15
DH60223R6YF□-□□□	3.6 ±30 %	23	30	2.48	3.87
DH60224R7YF□-□□□	4.7 ±30 %	28	36	2.25	3.30
DH60225R6YF□-□□□	5.6 ±30 %	32	42	2.07	3.05
DH60226R8YF□-□□□	6.8 ±30 %	34	44	1.80	2.85
DH60228R0YF□-□□□	8.0 ±30 %	44	57	1.71	2.66
DH6022100MF□-□□□	10.0 ±20 %	59	78	1.49	2.25
DH6022120MF□-□□□	12.0 ±20 %	66	86	1.40	2.07
DH6022150MF□-□□□	15.0 ±20 %	78	101	1.22	1.98
DH6022180MF□-□□□	18.0 ±20 %	86	108	1.17	1.89
DH6022220MF□-□□□	22.0 ±20 %	98	122	1.04	1.80
DH6022270MF□-□□□	27.0 ±20 %	124	155	0.95	1.53
DH6022330MF□-□□□	33.0 ±20 %	149	186	0.90	1.49
DH6022390MF□-□□□	39.0 ±20 %	197	246	0.77	1.22
DH6022470MF□-□□□	47.0 ±20 %	225	281	0.72	1.04
DH6022560MF□-□□□	56.0 ±20 %	282	353	0.65	0.98
DH6022680MF□-□□□	68.0 ±20 %	306	383	0.61	0.90
DH6022820MF□-□□□	82.0 ±20 %	348	435	0.56	0.85
DH6022101MF□-□□□	100.0 ±20 %	423	516	0.50	0.81

1). □：Packaging information：□ Code

2). "-□□□"：Reference code

3). Electrical specifications at 25℃

4). Inductance Test Condition.：100kHz / 0.1V

5). Isat base on △L/L0A＝35% typ.

6). Irms base on Temp. rise 40℃ typ.

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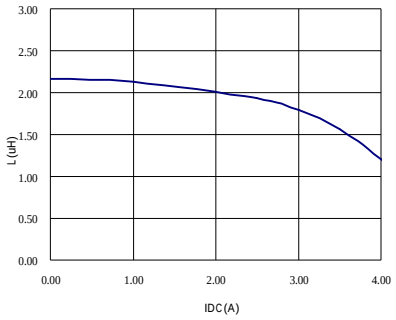
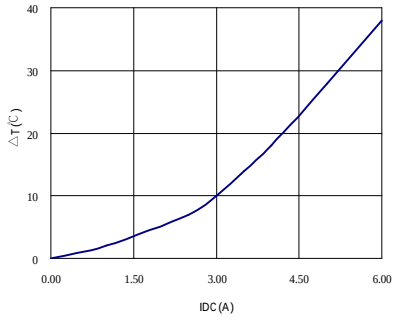
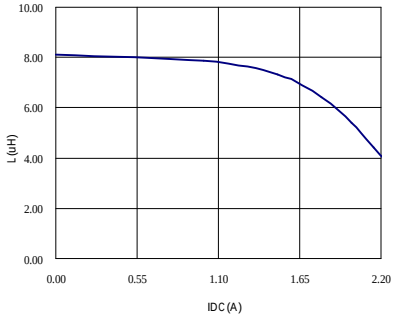
V . Curve :

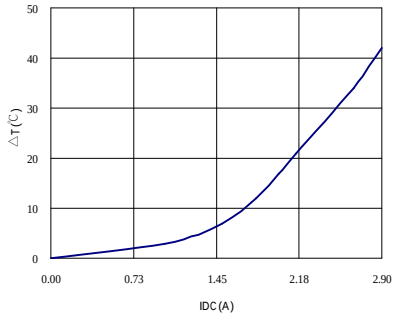
DH60222R2YF□



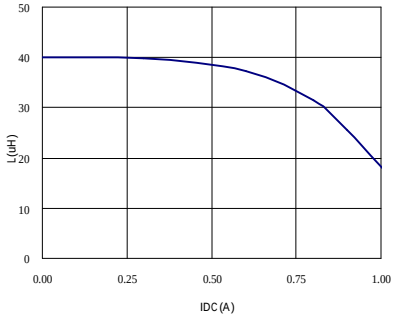


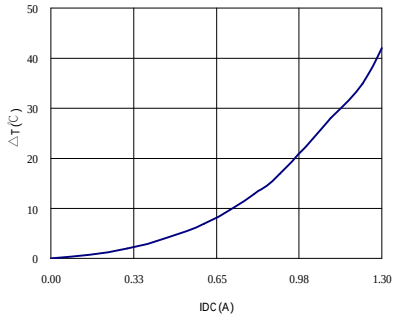
DH60228R0YF□



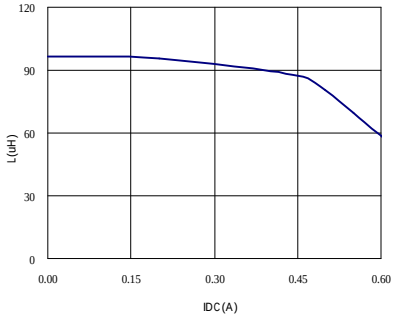


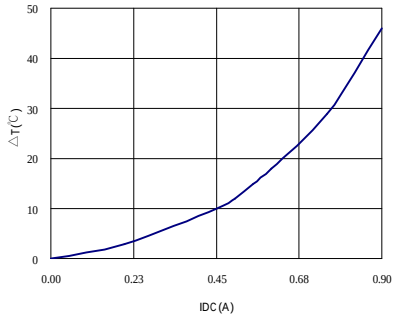
DH6022390MF□





DH6022101MF□





千如電子集團
ABC ELECTRONICS GROUP

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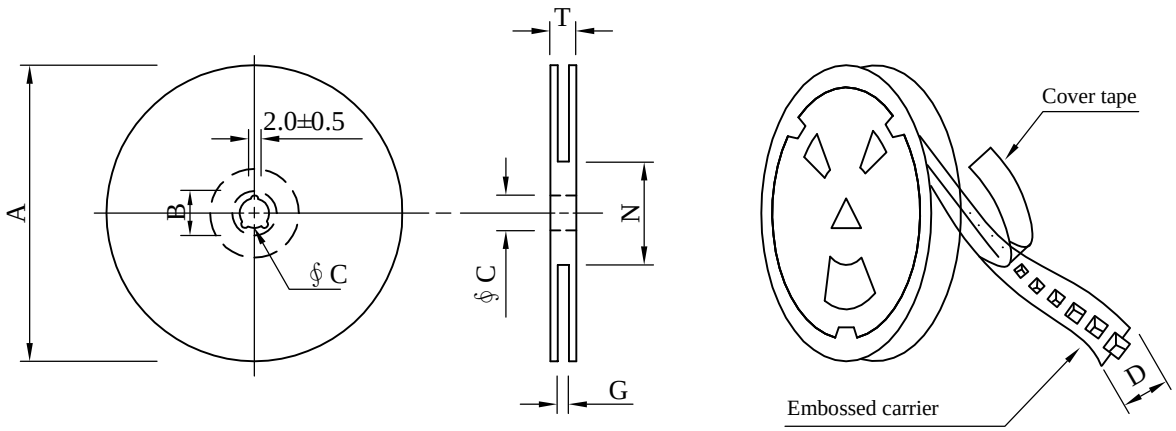
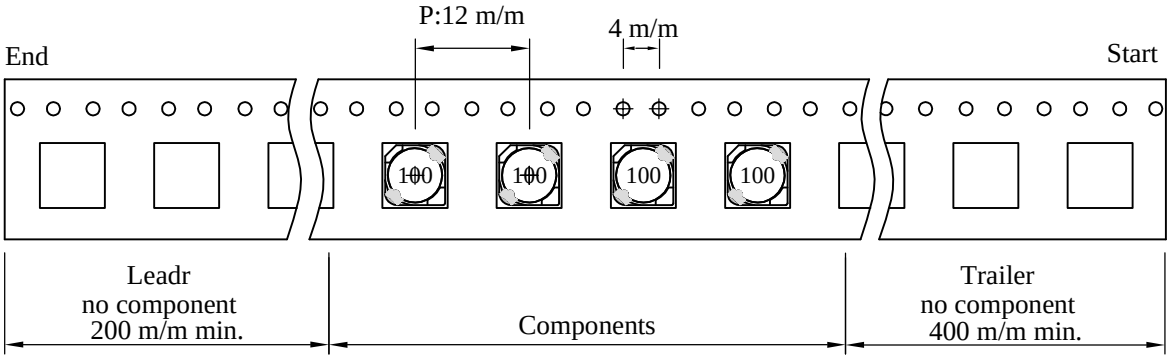
Ⅵ．Packaging information：

(1) Configuration



※Carrier tape width : D



User direction of feed

(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 16	178	21±0.8	13	16	18^{+0}	50^{-0}	20.5

(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	320	07 - 16	15,000	10.9	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 apperarance. 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：260±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 35% 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.