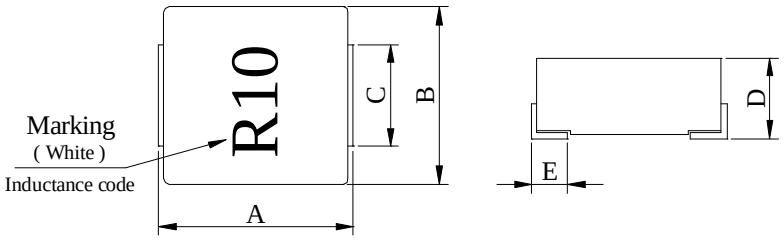
SPECIFICATION FOR APPROVAL

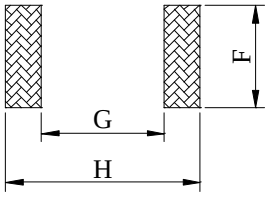
REF : 20090602-A

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	HP0402□□□□2□-□□□
		ABC'S ITEM No.	

Ⅰ．MECHANICAL DIMENSIONS：

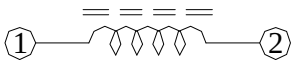


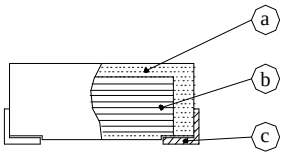
A： 5.10 ± 0.3 m/m
B： 4.50 ± 0.2 m/m
C： 2.00 typ. m/m
D： 2.00 max. m/m
E： 1.00 ± 0.3 m/m
F： 2.30 typ. m/m
G： 2.20 typ. m/m
H： 5.00 typ. m/m



(PCB Pattern)

Ⅱ．SCHEMATIC DIAGRAM：





Ⅲ．MATERIALS LIST：

a．Core：Iron powder

b．Wire：Enamelled copper wire

c．Cilp：Cu / Ni /Sn

d．Remark：Products comply with RoHS' requirements

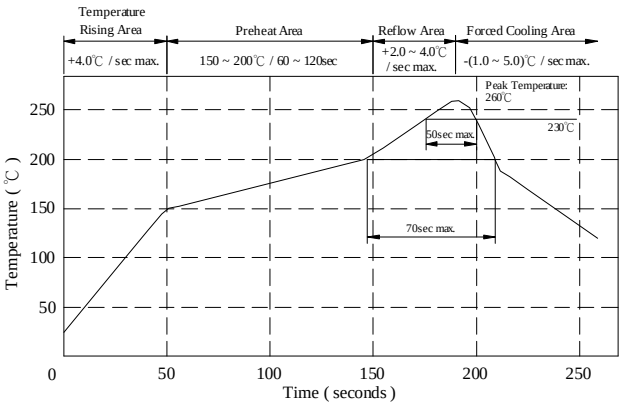
Ⅳ．GENERAL SPECIFICATION：

a．Storage temp.：-55℃ ~ +125℃

b．Operating temp .：-55℃ ~ +125℃
(Temp. rise included)

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

Peak Temp：260℃ max.
Max time above 230℃ ：50sec max.
Max time above 200℃ ：70sec max.



千如電子集團
ABC ELECTRONICS GROUP.

SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	HP0402□□□□2□-□□□
		ABC'S ITEM No.	

V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance L (μH)	Isat(A) typ.	Irms(A) typ.	RDC (mΩ)	
				max.	typ.
HP0402R10M2□-□□□	0.10 ± 20 %	35.0	11.0	5.0	4.5
HP0402R22M2□-□□□	0.22 ± 20 %	24.0	13.0	7.0	6.0
HP0402R47M2□-□□□	0.47 ± 20 %	11.5	6.0	18.0	16.0
HP04021R0M2□-□□□	1.00 ± 20 %	8.5	4.0	37.0	33.0
HP04022R2M2□-□□□	2.20 ± 20 %	6.0	3.0	90.0	80.0

1). □ : Packaging information … A: Bulk B: Taping Reel

2). "-□□□ ":Reference code

3). Measured frequency of inductance is 100 KHz / 0.25V

4). Isat base on inductance drop 20% typ. of L value at 20℃

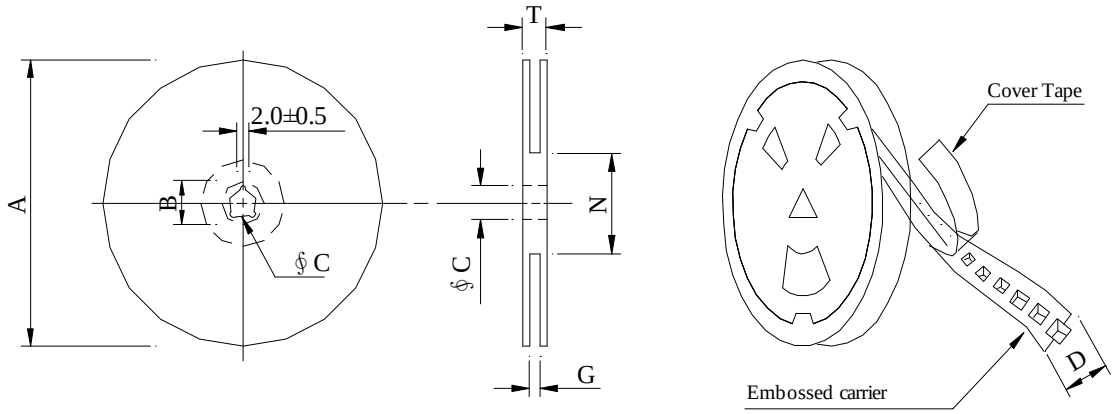
5). Irms base on temp. rise 40℃ typ.

SPECIFICATION FOR APPROVAL

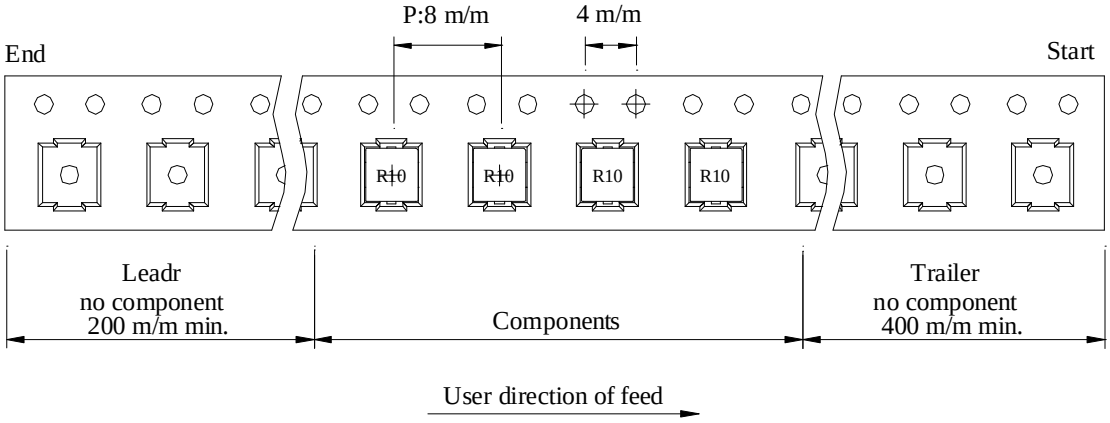
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	HP0402□□□□2□-□□□
		ABC'S ITEM No.	

Ⅵ．PACKAGING INFORMATION：

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 12	330	21±0.8	13±0.5	12	14^{+0}	50^{-0}	18.4

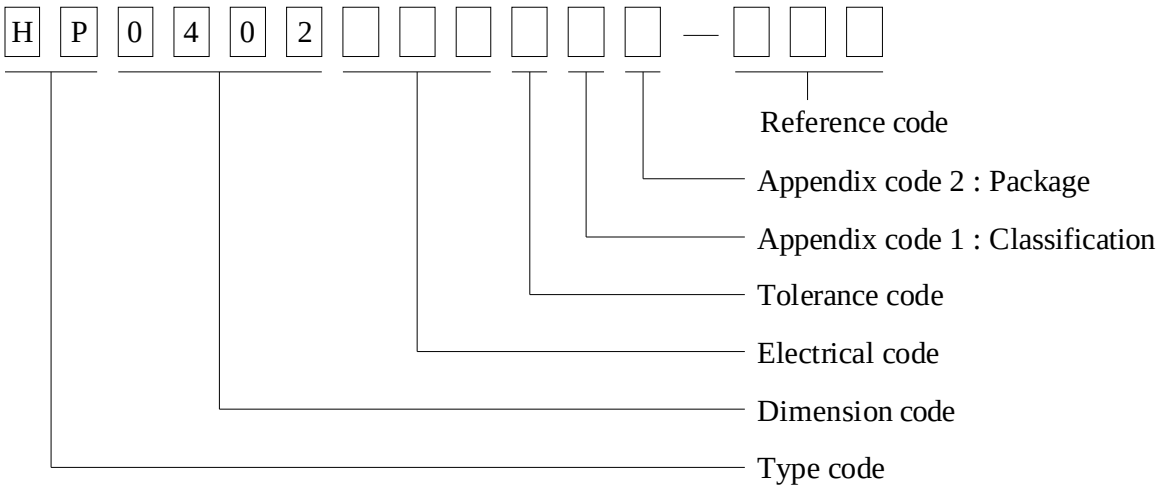
(3) Q'TY & G.W. Per package

Series	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
HP0402	3300	950	13 - 12	26,400	8.00	40 x 40 x 24

SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	HP0402□□□□2□-□□□
		ABC'S ITEM No.	

Ⅶ．DWGING NUMBER EXPRESSION：



Appendix code 1：Product Classification

L：Lead Free Standard products comply with RoHS' requirements

1 ~ 9：Lead Free Special products comply with RoHS' requirements

Appendix code 2：Package Information

Code	Inner package	Inner package Q'TY	Remark
A	T.B.D.	T.B.D	
B	T / R (Reel package)	3300 pcs	

SPECIFICATION FOR APPROVAL

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	HP0402□□□□2□-□□□
		ABC'S ITEM No.	

Ⅷ．RELIABILITY TEST：

Test item	Specification	Test condition
Solderability	More than 95% of the terminal electrode Shall be covered With fresh solder.	Preconditioning: 150℃/16Hrs±30min Dry Bake Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. :245±5℃ Flux : Rosin Dip time: 5±0.5sec
Thermal shock test (Temp. cycle)	Electrical oharacteristics shall not change more than ±20%	Room temp. / 15 minutes → -55 ℃ / 30 minutes Room temp. / 15 minutes → +125 ℃ / 30 minutes Total : 50 cycles
Humidity Test		Temperature : 40±2℃ Humidity : 90±5% Time : 1000 hours
High temp. Resistance test		Temperature : 125±5℃ Applied current : Per spec. Time : 96 hours

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	HP0402□□□□2□-□□□
		ABC'S ITEM No.	

Ⅸ . UL CARD :

OBMW2 September 8, 2000

Magnet Wire-Component

JUNG SHING WIRE CO LTD E174837
231 CHUNG CHENG RD, SEC 3 JEN-TEH HSIANG, TAINAN
HSIEN TAIWAN

Mtl Dsg	Mark Dsg	Coat Typ BC	Coat Typ OC	ANSI Type	Temp Class
AIW	——	Polyamideimide	——	MW81-C	220
CFUEWB	——	Polyurethane	——	MW75C	130
EIAIW	——	Polyesterimide	Polyamideimide	MW35C	200
EILOCKY	——	Polyesterimide	Polyamide	——	180
EILOCKW	——	Polyesterimide	Modified Epoxy	——	200
EIW	——	Polyesterimide	——	——	220
EIW-2	——	Polyesterimide	——	MW74-C	200
FL.EILOCKY	——	Modified Polyester	Polyamide	——	155
LSFFW	——	Polyurethane	——	MW79-C	155
LSUEW	——	Polyurethane	——	——	130
PEW	——	Polyester	——	——	155
PEY	——	Polyester	Nylon	MW24-C	155
SF.FLW	——	Modified Polyester	——	MW26C	155
SF.EIW	——	Polyesterimide	——	MW77C	180
SF.BY@	——	Modified Polyester	Nylon	MW27-C	155
SF.FLY@	——	Modified Polyester	Nylon	MW27-C	155
SF.BLOCKBS	——	Modified Polyester	Modified Polyamide	——	155
SF.EILOCKY#	——	Polyesterimide	Polyamide	——	180
SF.EILOCKBS	——	Polyesterimide	Modified Polyamide	——	180
SF.BW@	——	Modified Polyester	——	MW26C	155
SFFW	——	Polyurethane		MW79	155

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A not-for-profit organization dedicated to public safety and committed to quality service

Mtl Dsg	Mark Dsg	Coat Typ BC	Coat Typ OC	ANSI Type	Temp Class
SFFY	——	Polyurethane	Polyamide	MW80C	155
UEW-1	——	Polyurethane	——	MW2-C	105
UEW-2	——	Polyurethane	——	——	130
UEW-4	——	Polyurethane	——	MW75C	130
UEY	——	Polyurethane	Nylon	MW28-C	130
UEY-2	——	Polyurethane	Polyamide	MW28-C	130

@-May be suffixed by LZ; # - May be suffixed by LZ, EL or LZL

LZ - Signifies magned wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signifies base coated magnet wire twisted together and covered with top coat overall.

Marking: Company name or trademarks JSW or [illegible], material designation or marked designation on packaed or reel, and Recognized Component Mark.

See General Information Preceding These Recognitions

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

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September 8 , 2000