

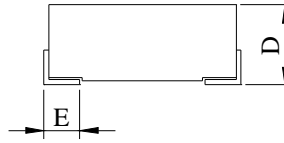
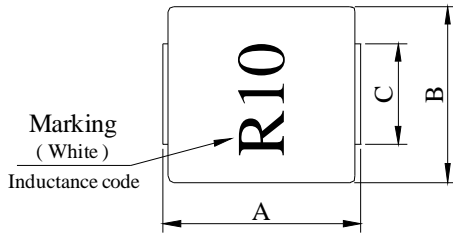
SPECIFICATION FOR APPROVAL

REF : 20090825-B

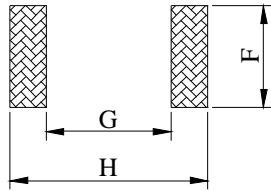
PAGE: 1

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No. ABC'S ITEM No.	HP0602□□□□2□-□□□
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I . MECHANICAL DIMENSIONS :

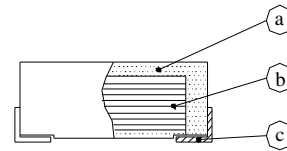
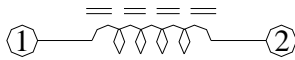


- A : 7.20 ± 0.3 m/m
- B : 6.50 ± 0.2 m/m
- C : 3.00 ± 0.3 m/m
- D : 2.40 max. m/m
- E : 1.70 ± 0.5 m/m
- F : 3.40 typ. m/m
- G : 3.70 typ. m/m
- H : 7.40 typ. m/m



(PCB Pattern)

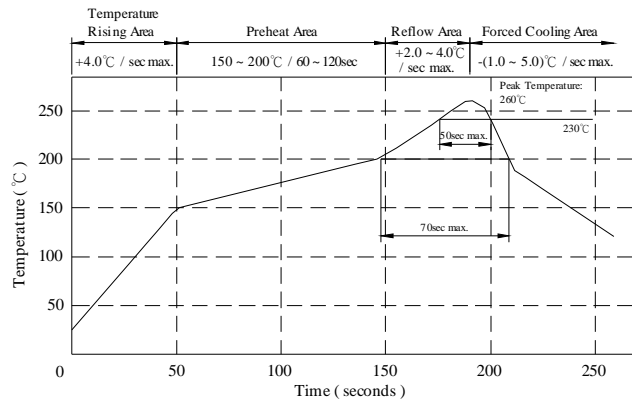
II . SCHEMATIC DIAGRAM :



III . MATERIALS LIST :

- a . Core : Iron powder
- b . Wire : Enamelled copper wire
- c . Cilp : Cu / Ni / Sn
- d . Remark : Products comply with RoHS' requirements

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



IV . GENERAL SPECIFICATION :

- a . Storage temp. : -55°C ~ +125°C
- b . Operating temp. : -55°C ~ +125°C
(Temp. rise included)
- c . Resistance to solder heat : 260°C. 10 secs.

AR-001A

SPECIFICATION FOR APPROVAL

REF : 20090825-B

PAGE: 2

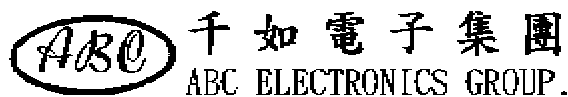
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	HP0602□□□□2□-□□□
		ABC'S ITEM No.	

V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance L (μ H)	Isat(A) typ.	Irms(A) typ.	RDC ($m\Omega$)	
				max.	typ.
HP0602R10M2□-□□□	0.10 \pm 20 %	50.0	30.0	2.0	1.5
HP0602R22M2□-□□□	0.22 \pm 20 %	34.0	21.0	3.5	3.0
HP0602R33M2□-□□□	0.33 \pm 20 %	22.0	18.0	4.5	4.0
HP0602R47M2□-□□□	0.47 \pm 20 %	21.0	13.0	6.5	6.0
HP0602R68M2□-□□□	0.68 \pm 20 %	18.0	11.0	9.5	9.0
HP0602R82M2□-□□□	0.82 \pm 20 %	17.0	10.0	12.0	11.0
HP06021R0M2□-□□□	1.00 \pm 20 %	16.0	9.0	14.5	13.5
HP06021R5M2□-□□□	1.50 \pm 20 %	15.0	7.0	21.5	18.5
HP06022R2M2□-□□□	2.20 \pm 20 %	14.0	6.0	34.0	28.0
HP06023R3M2□-□□□	3.30 \pm 20 %	13.0	5.0	52.0	36.5
HP06024R7M2□-□□□	4.70 \pm 20 %	10.0	4.0	63.0	45.5
HP06026R8M2□-□□□	6.80 \pm 20 %	9.0	3.5	95.0	72.5
HP06028R2M2□-□□□	8.20 \pm 20 %	8.0	3.0	106.0	84.5
HP0602100M2□-□□□	10.0 \pm 20 %	7.0	2.5	129.0	116.0

- 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°C
- 5). Irms base on temp. rise 40°C typ.

AR-001A



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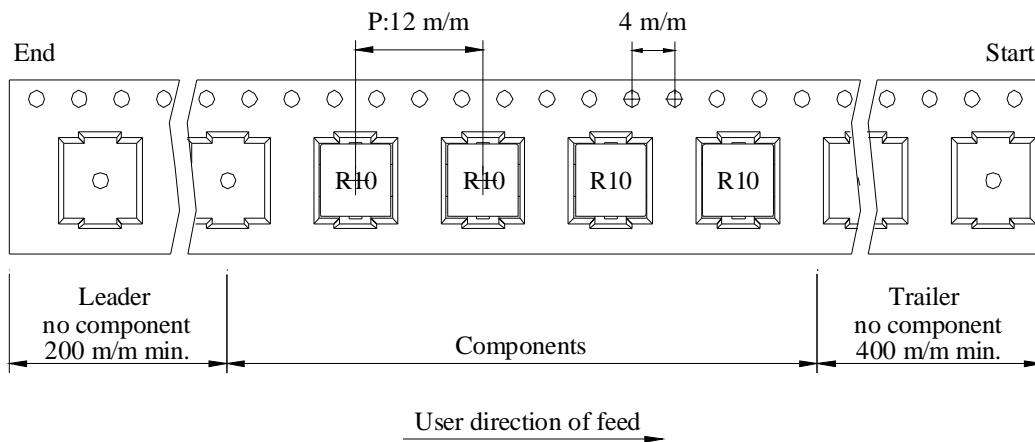
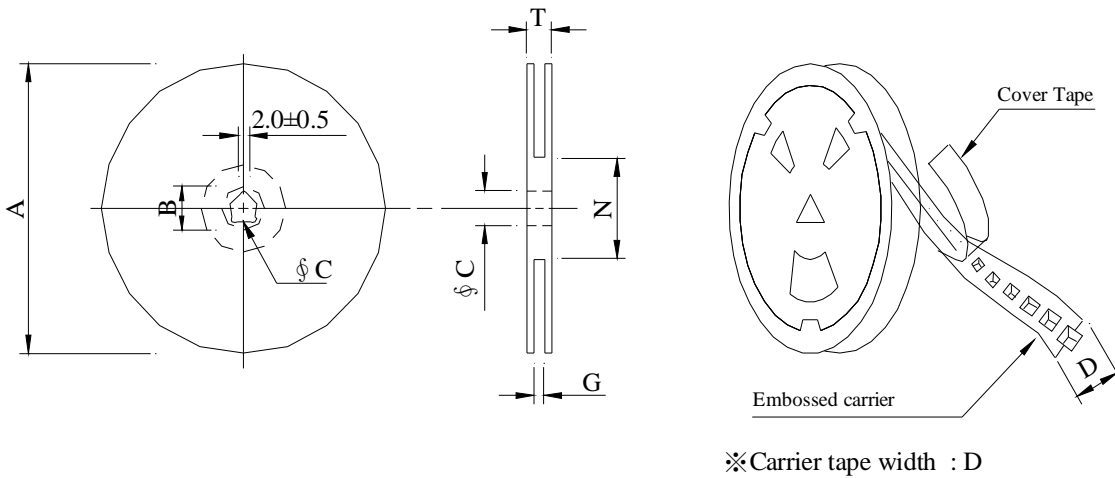
REF : 20090825-B

PAGE: 3

PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	HP0602□□□□2□-□□□
		ABC'S ITEM No.	

VI . PACKAGING INFORMATION :

(1) Configuration



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13±0.5	16	18 ⁺⁰	50 ⁻⁰	22.4

(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)
HP0602	1,900	1,500	13 - 16	11,400	10.0	40 x 40 x 24

AR-001A

SPECIFICATION FOR APPROVAL

REF : 20090825-B

PAGE: 5

PROD.	SHIELDED SMD	ABC'S DWG No.	HP0602□□□□2□-□□□
NAME	POWER INDUCTOR	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°C/16Hrs±30min Dry Bake Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. :245±5°C Flux : Rosin Dip time: 5±0.5sec						
Thermal shock test (Temp. cycle)	Electrical oharacteristics shall not change more than ±20%	<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">-55 °C 30 minutes</td> </tr> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">+125 °C 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	-55 °C 30 minutes	Room temp. 15 minutes	→	+125 °C 30 minutes
Room temp. 15 minutes		→	-55 °C 30 minutes					
Room temp. 15 minutes		→	+125 °C 30 minutes					
Humidity Test		Temperature : 40±2°C Humidity : 90±5% Time : 1000 hours						
High temp. Resistance test	Temperature : 125±5°C Applied current : Per spec. Time : 96 hours							

AR-001A



