

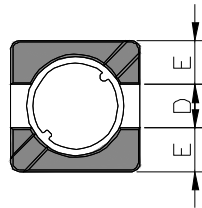
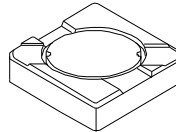
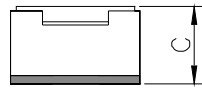
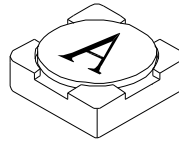
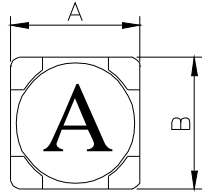
SPECIFICATION FOR APPROVAL

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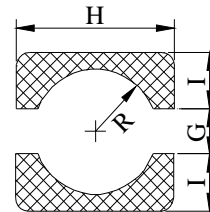
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH3220□□□□L□-□□□
		ABC'S ITEM NO.	

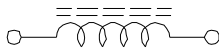
I . CONFIGURATION & DIMENSIONS :



- A : 3.20 max. mm
- B : 3.20 max. mm
- C : 2.00 max. mm
- D : 1.00 typ. mm
- E : 1.00 typ. mm
- G : 0.90 ref. mm
- H : 3.50 ref. mm
- I : 1.30 ref. mm
- R : 1.10 ref. mm



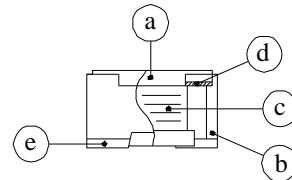
II . SCHEMATIC DIAGRAM :



(PCB Pattern Suggestion)

III . MATERIALS :

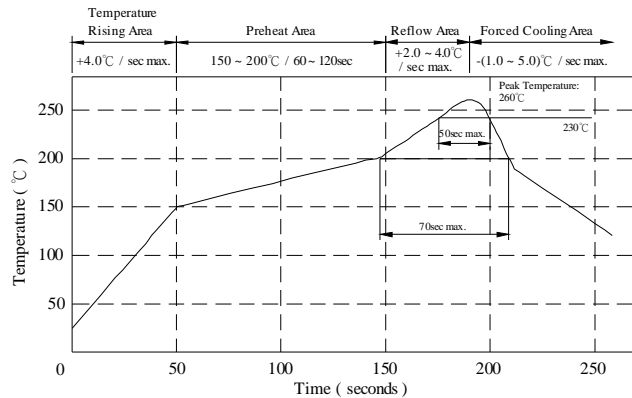
- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire (class H)
- d . Adhesive : Epoxy resin
- e . Terminal : Ag / Ni / Sn
- f . Remark : Products comply with RoHS' requirements



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

IV . GENERAL SPECIFICATION :

- a . Temp. rise : 45°C max.
- b . Rated current :
Base on temp. rise & $\Delta L / LOA=35\%$ max.
- c . Storage temp. : -40°C ----+125°C
- d . Operating temp. : -40°C ----+105°C
- e . Resistance to solder heat : 260°C.10 secs.



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V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μH)	RDC (mΩ) max.	Irms (mA) max.	Isat (mA) max.	Marking
SH32203R3YL□-□□□	3.3 ±30 %	108	1200	1500	A
SH32206R8YL□-□□□	6.8 ±30 %	208	980	980	B
SH3220100YL□-□□□	10.0 ±30 %	280	870	830	C
SH3220220YL□-□□□	22.0 ±30 %	730	540	540	D
SH3220470YL□-□□□	47.0 ±30 %	1300	390	390	E
SH3220101YL□-□□□	100.0 ±30 %	2600	280	260	F

- 1) . □ : Packaging Information... **A** : Bulk **B** : Taping Reel
- 2) . "- □□□":Reference code
- 3) . Inductance Test Freq. : 100KHz / 0.1V
- 4) . Irms base on Temp. rise 45°C max.
- 5) . Isat base on ΔL / LOA=35% max.

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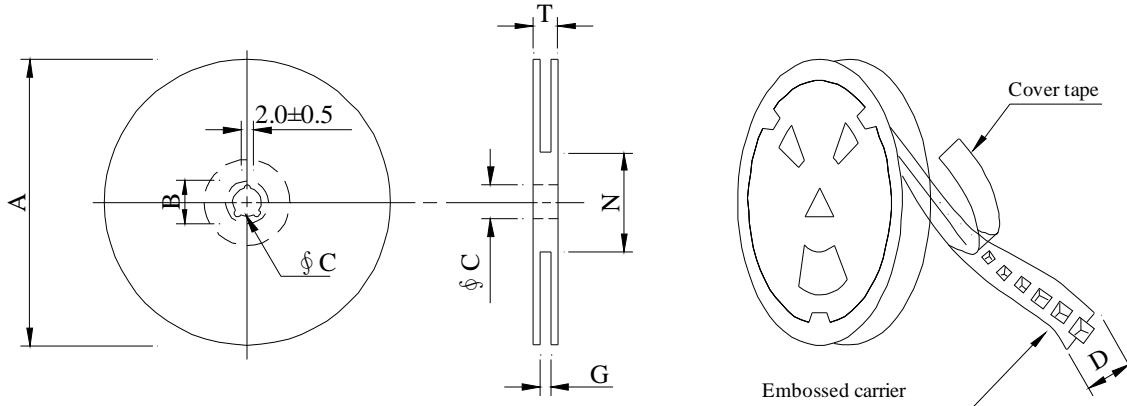
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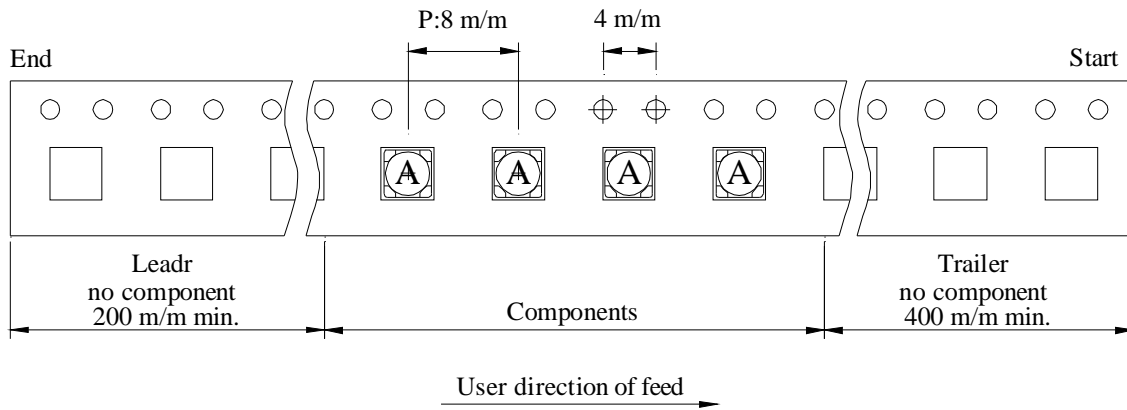
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		ABC'S ITEM NO.	

VI . PACKAGING INFORMATION :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

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

(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)
SH3220	800	120	07 - 12	32000	7.50	42 x 41 x 24

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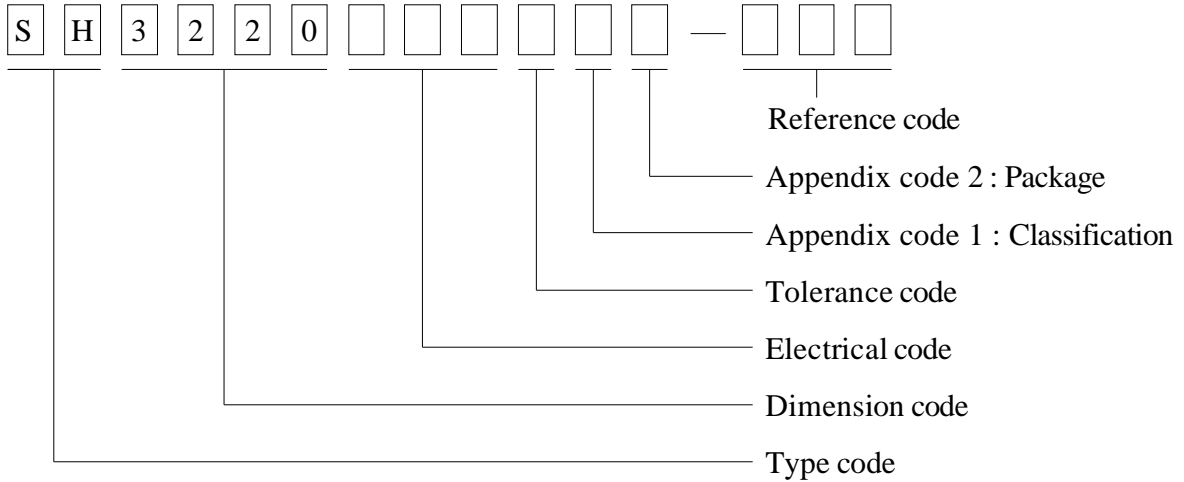
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		ABC'S ITEM NO.	

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)	800 pcs	

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VIII . RELIABILITY TEST :

Test item	Specification	Test condition						
Solderability	More than 95% of the terminal electrode shall be covered With fresh solder.	Preheat : 155°C / 4 hours. Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5°C Flux : Rosin Dip time : 5±0.5 seconds						
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;">-40 °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;">+105 °C 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	-40 °C 30 minutes	Room temp. 15 minutes	→	+105 °C 30 minutes
Room temp. 15 minutes		→	-40 °C 30 minutes					
Room temp. 15 minutes		→	+105 °C 30 minutes					
Biased Humidity		Temperature : 40±2°C Humidity : 90±5% Time : 1000 hours						
High temp. Resistance test	Temperature : 105±5°C Applied current : Per spec. Time : 96 hours							

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IX . UL CARD :

OBMW2 October 06, 2005
 Magnet Wire-Component

ELEKTRISOLA (MALAYSIA) SDN BHD E143312
 JALAN DAMAI SATU JANDA BAIK 28750 BENTONG, PAHANG
 DARUL MAKMUR MALAYSIA

Mtl Dsg	Mark Dsg	Coating Type		ANSI Typ	Temp Class
		BC	OC		
Estersol 180	E180	Polyesterimide (solderable)	---	MW-77	180
Amldester 200	A200	Polyesterimide	---	MW-74	200
Polysol-N 155	PN155	Polyurethane	Nylon	MW-80, MW-28	155, 130
Polysol 155	P155, G155	Polyurethane	---	MW-79, MW-75	155, 130
Polysol 155g	Pg155	Polyurethane	---	MW-75	130
Polysol 155p	Pp155,Gp155	Polyurethane	---	MW-79	155
Polysol 160	P160	Polyurethane	---	MW-79	155
Polysol 180	P180,G180	Polyurethane	---	MW-82	180
Polysol 170	P170 or G170	Polyurethane	---	MW-79	155
Polysol-N 180	PN180	Polyurethane	Nylon	MW-79	155
Polysol P155p	P155p	Polyurethane	---	MW-83	180
			---	MW-79	155

Marking : Company name, material designation or marked designation and factory identification on package ok reel

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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