

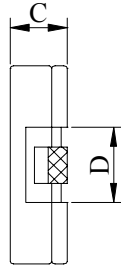
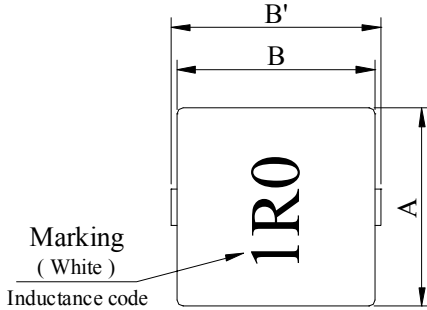
SPECIFICATION FOR APPROVAL

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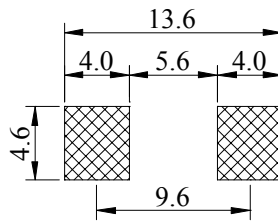
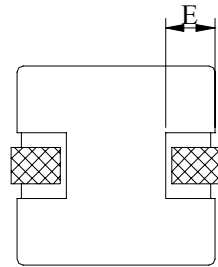
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG No.	SP1235□□□□L□-□□□
		ABC'S ITEM No.	

MECHANICAL DIMENSIONS :

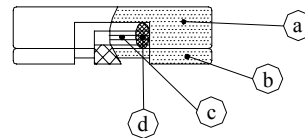


- A : 12.7±0.30 m/m
- B : 12.7±0.30 m/m
- B' : 13.0±0.30 m/m
- C : 3.50±0.30 m/m
- D : 4.20 typ. m/m
- E : 3.30 typ. m/m



(PCB Pattern)

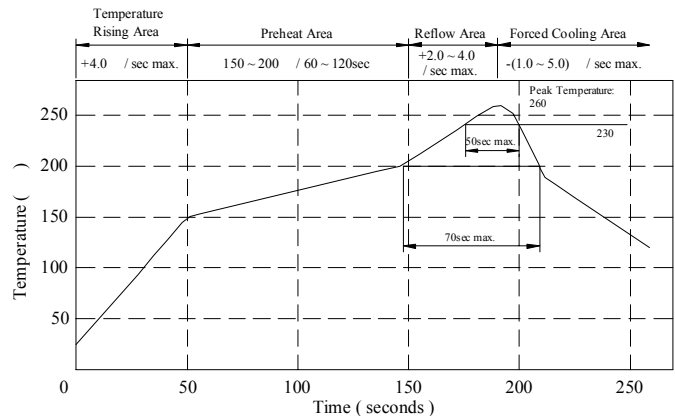
SCHEMATIC DIAGRAM :



MATERIALS LIST :

- a . Core : Iron ER core
- b . Core : Iron I core
- c . Wire : Ultra-fine rectangular Enamelled copper wire
- d . Adhesive : Epoxy resin
- e . Remark : Products comply with RoHS' requirements

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



GENERAL SPECIFICATION :

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

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		ABC'S ITEM No.	

. ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance L (μ H)	Isat 1 (A)	Isat 2 (A)	Irms (A)	RDC ($m\Omega$)	
					max.	typ.
SP1235R22YL□-□□□	0.22 \pm 30 %	35.0	60.0	32.0	1.7	1.3
SP1235R56YL□-□□□	0.56 \pm 30 %	25.0	45.0	22.0	2.6	2.0
SP12351R0YL□-□□□	1.00 \pm 25 %	15.0	30.0	18.6	4.4	3.4
SP12351R8YL□-□□□	1.80 \pm 25 %	12.0	25.0	16.0	5.7	4.4
SP12352R7YL□-□□□	2.70 \pm 25 %	9.0	18.0	14.0	7.4	5.7

- 1). □ : Packaging information ... [A]: Bulk [B]: Taping Reel
- 2). "-□□□":Reference code
- 3). Measured frequency of inductance is 100 KHz / 1V
- 4). Isat 1 base on inductance drop 10% typ. of L value at 20
- 5). Isat 2 base on inductance drop 30% typ. of L value at 20
- 6). Irms base on temp. rise 40 typ.

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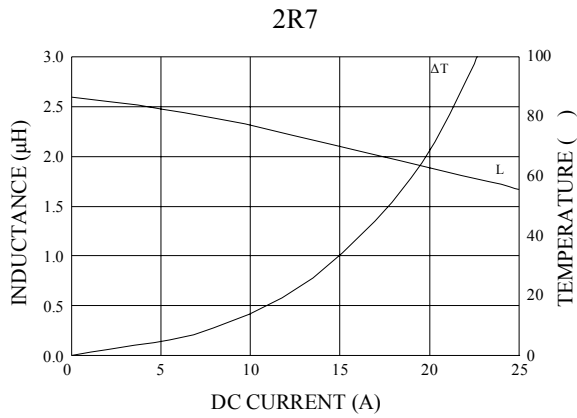
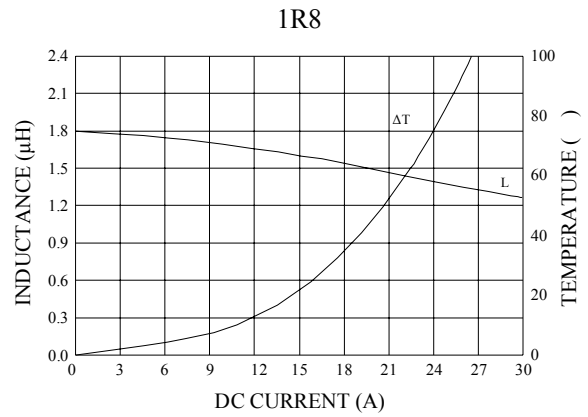
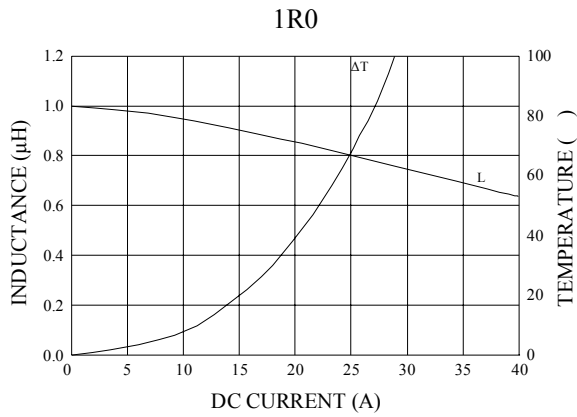
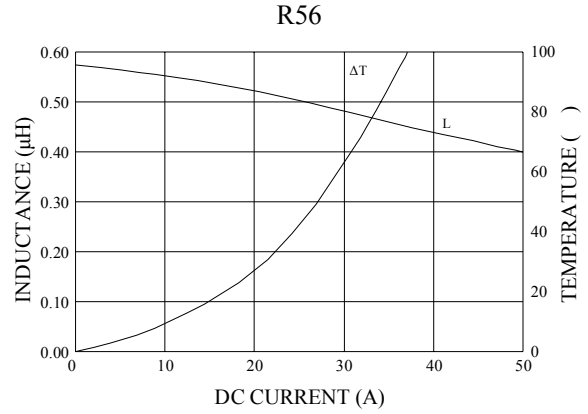
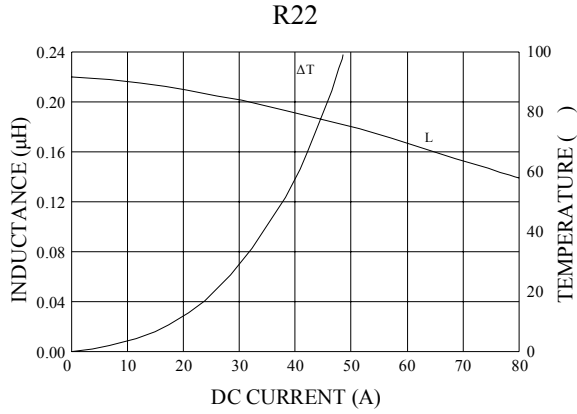
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@ Performance Graphs



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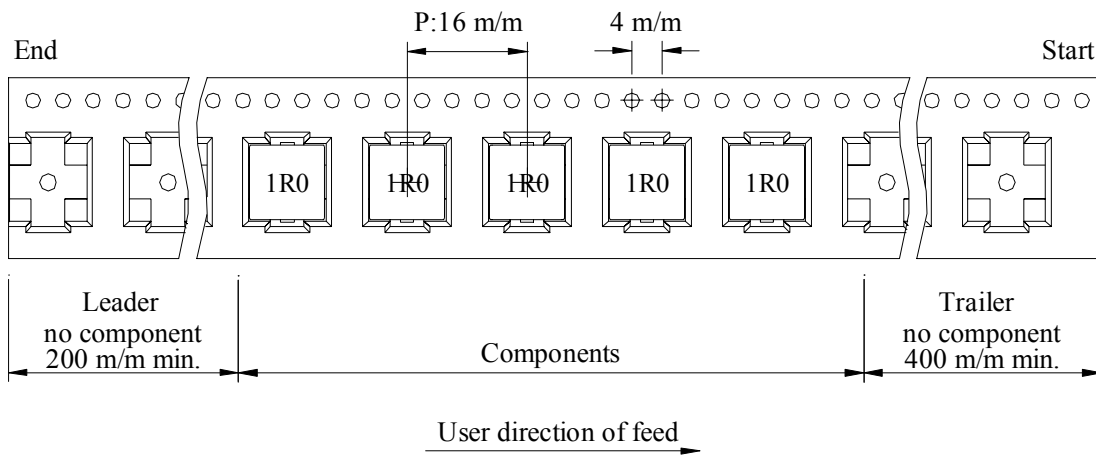
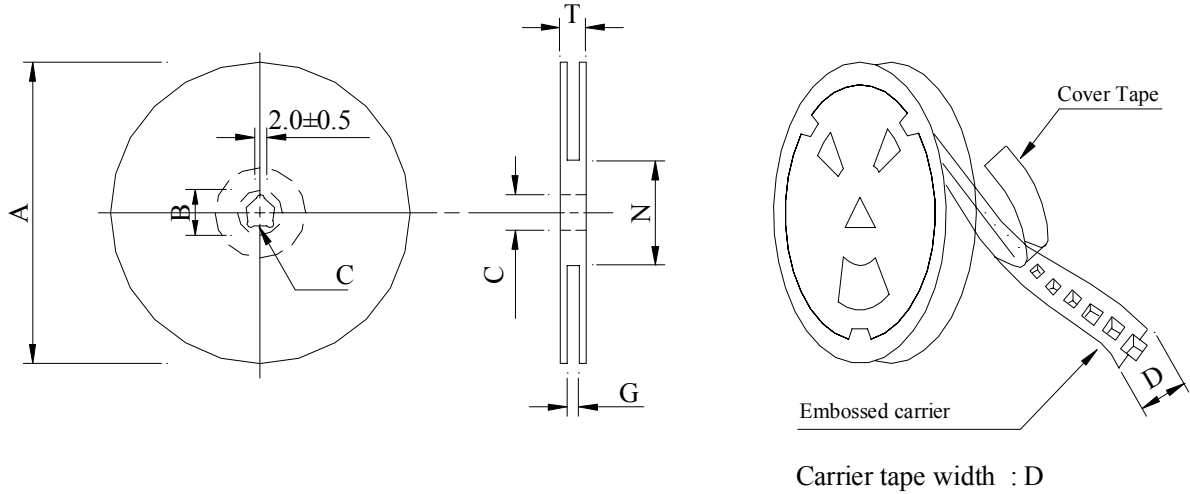
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PACKAGING INFORMATION :

(1) Configuration



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 24	330	21±0.8	13	24	26 ⁺⁰	50 ⁻⁰	30.4

(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)
SP1235	1,000	2,200	13 - 24	4,000	12.0	40 x 40 x 24

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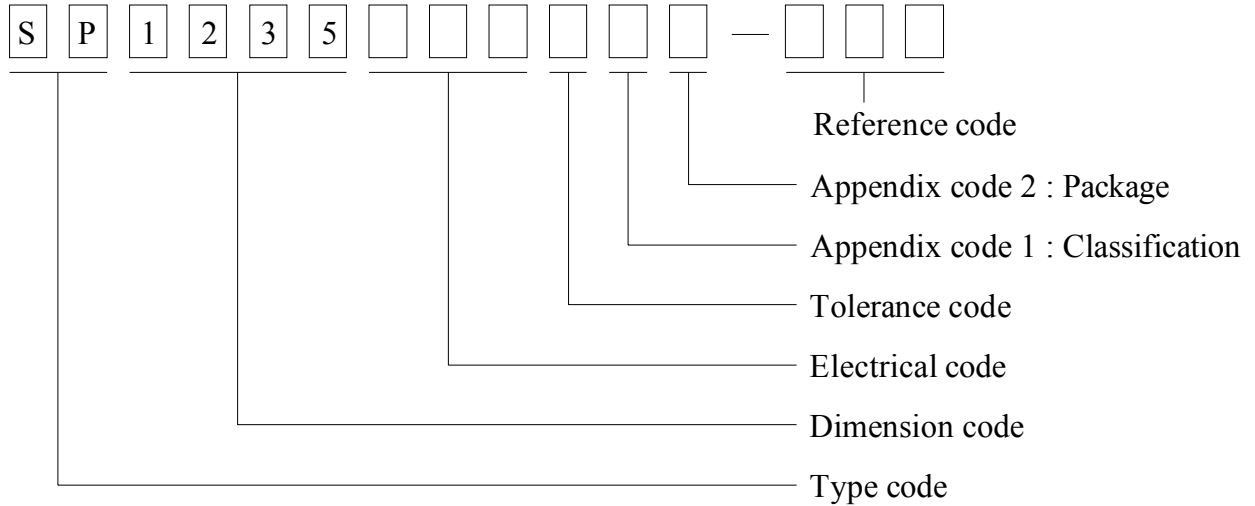
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		ABC'S ITEM No.	

. 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)	1000 pcs	

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NAME	POWER INDUCTOR	ABC'S ITEM No.	

. RELIABILITY TEST :

Test item	Specification	Test condition						
Solderability	More than 90% of the terminal electrode shall be covered With fresh solder.	Preheat : 150±25 for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5 Flux : Rosin Dip time : 4±1 seconds						
Thermal shock test (Temp. cycle)	Inductance 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;">$\frac{-25 \pm 2}{30 \text{ minutes}}$</td> </tr> <tr> <td style="text-align: center;">Room temp. 15 minutes</td> <td style="text-align: center;">→</td> <td style="text-align: center;">$\frac{85 \pm 2}{30 \text{ minutes}}$</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	$\frac{-25 \pm 2}{30 \text{ minutes}}$	Room temp. 15 minutes	→	$\frac{85 \pm 2}{30 \text{ minutes}}$
Room temp. 15 minutes		→	$\frac{-25 \pm 2}{30 \text{ minutes}}$					
Room temp. 15 minutes		→	$\frac{85 \pm 2}{30 \text{ minutes}}$					
Humidity Resistance test		Temperature : 40±2 Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours						
High temp. Resistance test	Temperature : 85±2 Applied current : Per spec. Time : 500 hours							

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PROD.	SHIELDED SMD	ABC'S DWG No.	SP1235□□□□L□-□□□
NAME	POWER INDUCTOR	ABC'S ITEM No.	

. UL CARD :

OBMW2		January 7, 1988		
Component-Magnet Wire		E104048 (S)		
MITSUBISHI CABLE INDUSTRIES LTD				
4-3 IKEJIRI ITAMI , HYOGO 664 JAPAN				
Mil		Coat Typ	ANSI	Temp
Dsg	BC	Oyercoat	Type	Class
EDW-R52	Medis	Ester-imide	—	155
Marking : Company name and type designation on package or reels.				
See General Information Preceding These Recognitions.				
For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.				
Report : January 5, 1988.				
302279005	H7642	Underwriters Laboratories Inc.®	D11/0149909	

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