

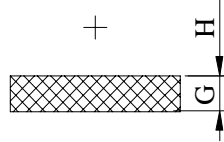
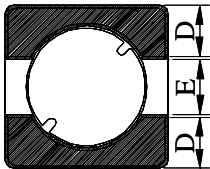
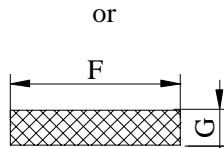
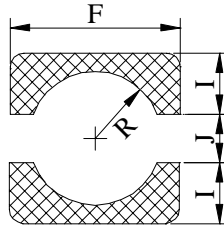
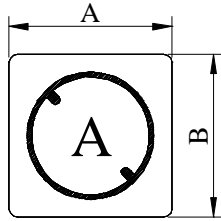
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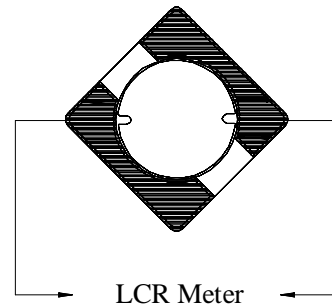
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH2016□□□□L□-□□□
		ABC'S ITEM NO.	

CONFIGURATION & DIMENSIONS :



- A : 2.60 ±0.20 m/m
- B : 2.60 ±0.20 m/m
- C : 1.65 ±0.15 m/m
- D : 0.80 typ m/m
- E : 0.90 typ m/m
- F : 2.90 ref m/m
- G : 0.70 ref m/m
- H : 1.70 ref m/m
- I : 1.00 ref m/m
- J : 0.90 ref m/m
- R : 0.90 ref m/m

(PCB Pattern Suggestion)

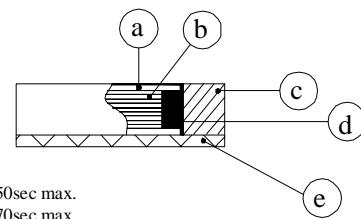


SCHEMATIC DIAGRAM :



MATERIALS :

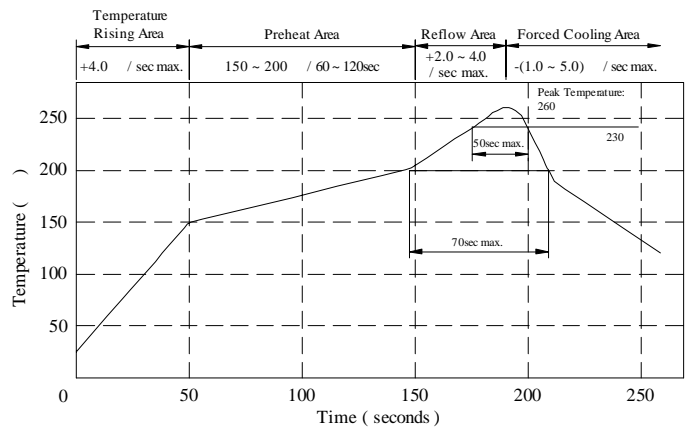
- a . Core : Ferrite DR core
- b . Core : Ferrite RI core
- c . Wire : Enamelled copper wire (Class H)
- d . Adhesive : Epoxy resin
- e . Terminal : Ag/Ni/Sn
- f . Remark : Products comply with RoHS' requirements



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

GENERAL SPECIFICATION :

- a . Temp. rise : 40 max.
- b . Storage temp. : -40 ----+125
- c . Operating temp. : -40 ----+105
- d . Resistance to solder heat : 260 .10 secs.



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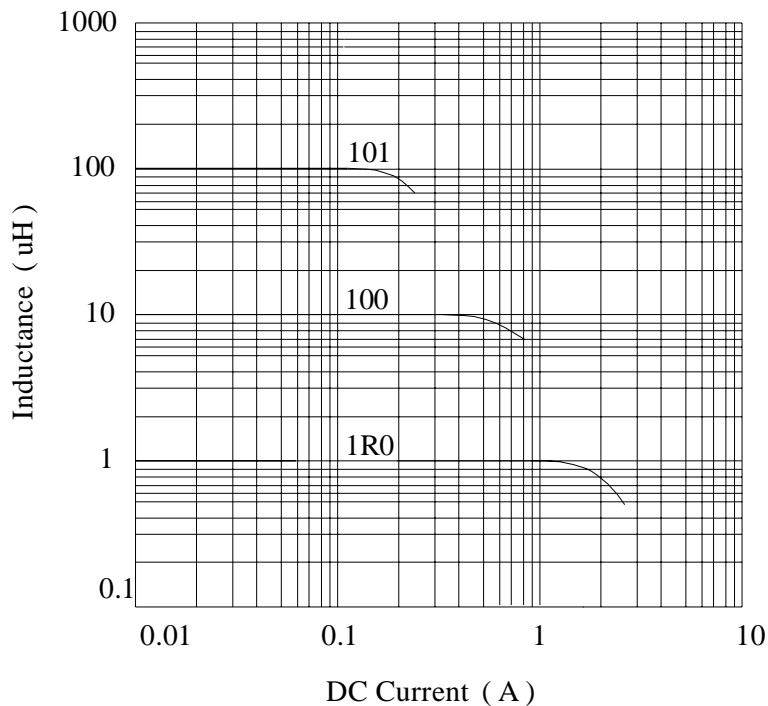
PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH2016□□□□L□-□□□
		ABC'S ITEM NO.	

. ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (mΩ)		Irms (mA) max.	Isat (mA) typ.	Marking
					typ.	max.			
SH20161R0YL□-□□□	1.0 ± 30 %	8	7.96	175	80	105	1450	2300	A
SH20162R2YL□-□□□	2.2 ± 30 %	8	7.96	110	165	215	1100	1650	C
SH20163R0YL□-□□□	3.0 ± 30 %	9	7.96	80	200	260	900	1250	E
SH20164R7YL□-□□□	4.7 ± 30 %	9	7.96	70	285	370	800	1000	F
SH20166R0YL□-□□□	6.0 ± 30 %	9	7.96	50	360	470	720	780	G
SH2016100YL□-□□□	10.0 ± 30 %	9	2.52	40	640	830	550	720	H
SH2016150YL□-□□□	15.0 ± 30 %	12	2.52	30	900	1170	480	610	I
SH2016220YL□-□□□	22.0 ± 30 %	12	2.52	25	1320	1720	400	520	J
SH2016330YL□-□□□	33.0 ± 30 %	12	2.52	20	2000	2600	325	390	K
SH2016470YL□-□□□	47.0 ± 30 %	12	2.52	15	3000	3900	250	300	L
SH2016680YL□-□□□	68.0 ± 30 %	15	2.52	12	4450	5800	150	270	M
SH2016101YL□-□□□	100.0 ± 30 %	15	0.796	10	7000	9100	100	230	N

- 1). □ : Packaging Information... **A**: Bulk **B**: Taping Reel
- 2). "- □□□ " : Reference code
- 3). Inductance Test Freq. : 100KHz /0.1V
- 4). Irms base on Temp. rise 40 max.
- 5). Isat base on L / LOA=35% typ.

@ Inductance VS. DC Current Curve



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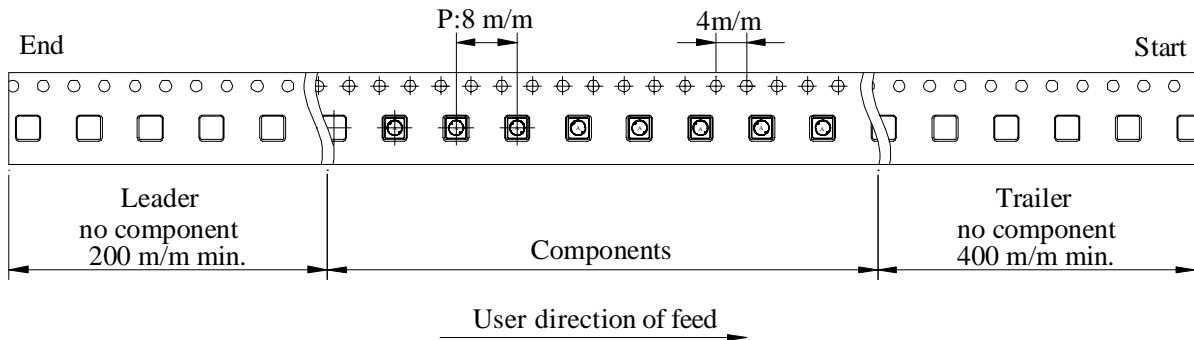
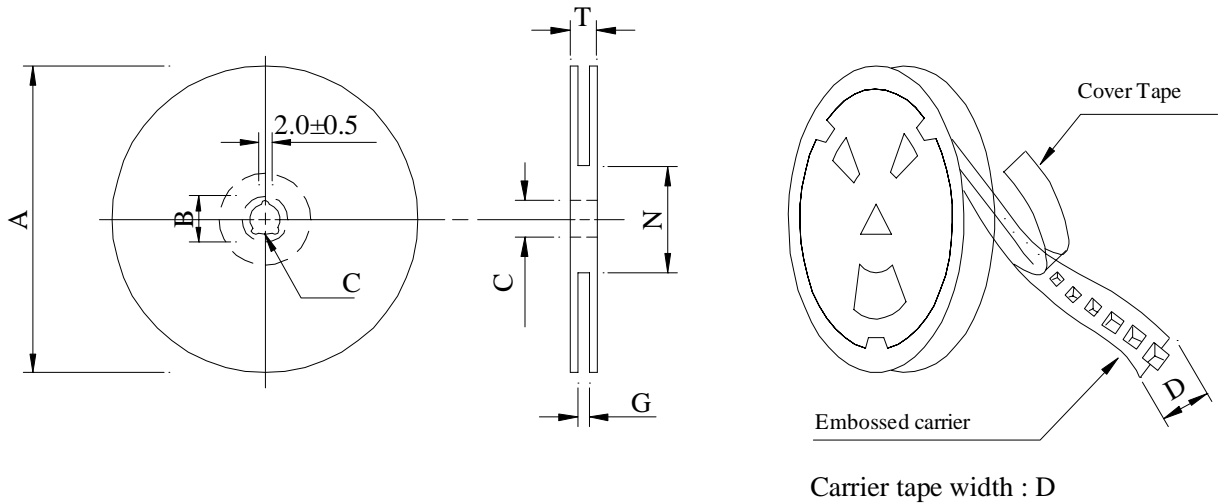
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH2016□□□□L□-□□□
		ABC'S ITEM NO.	

PACKAGING INFORMATION :

(1) Configuration



(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)
SH2016	1,000	120	07 - 12	40,000	6.2	42 x 41 x 24

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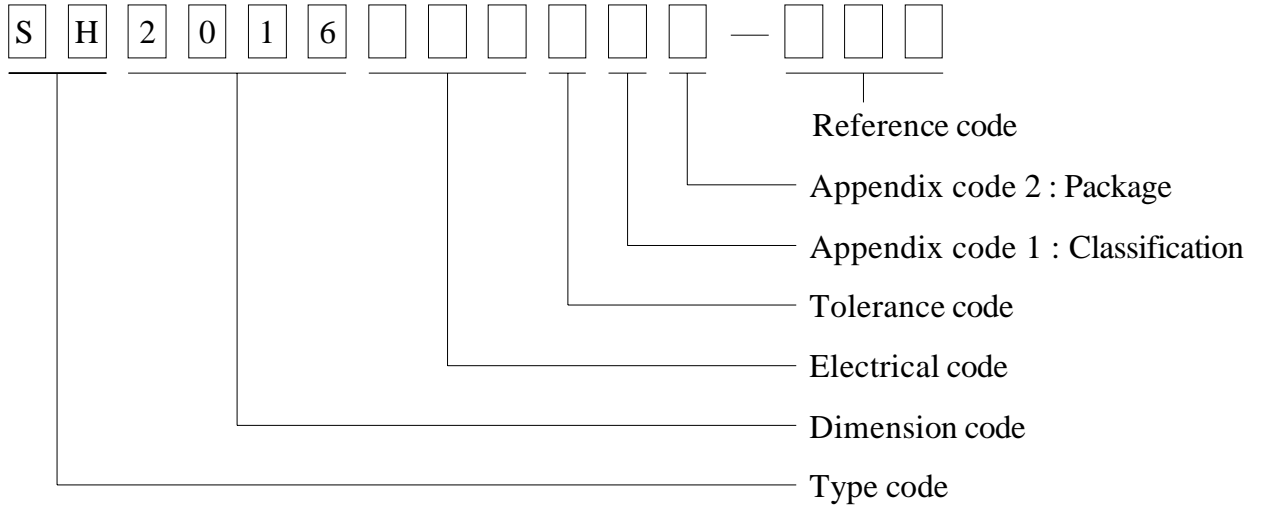
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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH2016□□□□L□-□□□
		ABC'S ITEM NO.	

. 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)	1,000 pcs	

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH2016□□□□L□-□□□
		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 : 105±2 Applied current : Per spec. Time : 500 hours							

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SH2016□□□□L□-□□□
		ABC'S ITEM NO.	

. 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,	155,
				MW-28	130
Polysol 155	P155, G155	Polyurethane	---	MW-79,	155,
				MW-75	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
				MW-79	155
Polysol 170	P170 or G170	Polyurethane	---	MW-79	155
Polysol-N 180	PN180	Polyurethane	Nylon	MW-83	180
Polysol P155p	P155p	Polyurethane	---	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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