

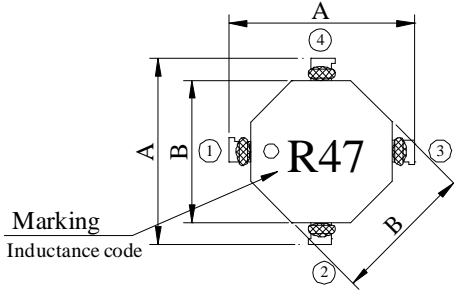
SPECIFICATION FOR APPROVAL

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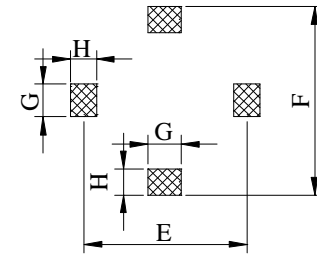
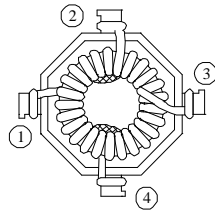
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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SF1105□□□□L□-□□□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :

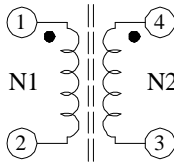


A	: 11.50 ±0.3	m/m
B	: 8.80 ±0.3	m/m
C	: 4.85 ±0.3	m/m
C'	: 5.20 max.	m/m
E	: 9.96 ref.	m/m
F	: 13.00 ref.	m/m
G	: 3.68 ref.	m/m
H	: 3.05 ref.	m/m

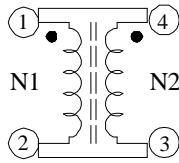


(PCB Pattern)

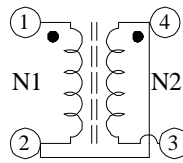
II . SCHEMATIC DIAGRAM :



TRANSFORMERS

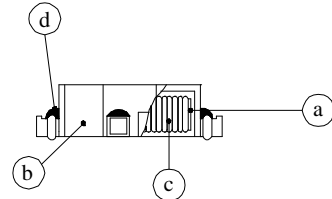


PARALLEL



SERIES

" ● " : Polarity



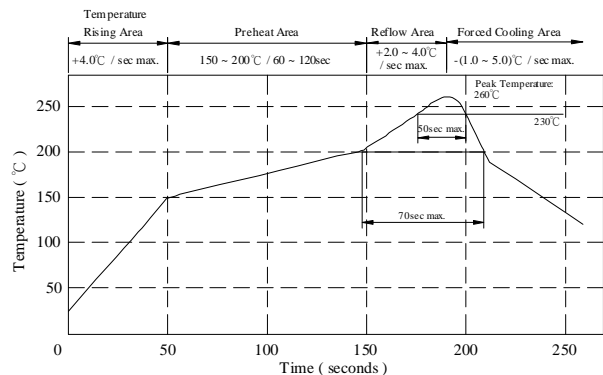
III . MATERIALS :

- a . Core : Ferrite core
- b . Case : CPJ-8800
- c . Wire : Enamelled copper wire (class H)
- d . Adhesive : Epoxy resin
- e . Varnish : FS1320
- 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 . ENVIRONMENTAL SPECIFICATION :

- a . Storage temp. : -40°C ----+105°C
- b . Operating ambient temp. : -40°C ----+105°C
- c . Resistance to solder heat : 260°C . 10 secs.



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V . ELECTRICAL CHARACTERISTICS :

DWG No.	Open Circuit Inductance (μH)		Full Load Current (A) max.		DC Resistance (mΩ) max	
	PARALLEL	SERIES	PARALLEL	SERIES	PARALLEL	SERIES
SF1105R47YL□-□□□	0.47±30%	1.88±30%	5.90	2.95	12	48
SF1105R68YL□-□□□	0.68±30%	2.72±30%	5.40	2.70	14	56
SF11051R0ML□-□□□	1.00±20%	4.00±20%	5.00	2.50	16	64
SF11052R0ML□-□□□	2.00±20%	8.00±20%	3.90	1.95	25	100
SF11055R0ML□-□□□	5.00±20%	20.00±20%	2.50	1.25	40	160
SF11058R0ML□-□□□	8.00±20%	32.00±20%	2.30	1.15	60	240
SF1105100ML□-□□□	10.00±20%	40.00±20%	2.10	1.05	70	280
SF1105150ML□-□□□	15.00±20%	60.00±20%	1.60	0.80	85	340
SF1105200ML□-□□□	20.00±20%	80.00±20%	1.50	0.75	105	420
SF1105250ML□-□□□	25.00±20%	100.00±20%	1.40	0.70	120	480
SF1105330ML□-□□□	33.00±20%	132.00±20%	1.30	0.65	150	600
SF1105500ML□-□□□	50.00±20%	200.00±20%	0.82	0.41	310	1240
SF1105680ML□-□□□	68.00±20%	272.00±20%	0.76	0.38	365	1460
SF1105101ML□-□□□	100.00±20%	400.00±20%	0.62	0.31	545	2180
SF1105151ML□-□□□	150.00±20%	600.00±20%	0.56	0.28	665	2660
SF1105201ML□-□□□	200.00±20%	800.00±20%	0.46	0.23	955	3820
SF1105301ML□-□□□	300.00±20%	1200.00±20%	0.42	0.21	1400	5600

- 1). □ : Packaging information ... [A]: Bulk [B] Taping Reel
- 2). "-□□□": Reference code
- 3). Test equipment : Inductance (HP4274A , 0.25V/100KHz)
- 4). IDC : Base on temp. rise 40°C max
& ΔL / L0A=35% typ.

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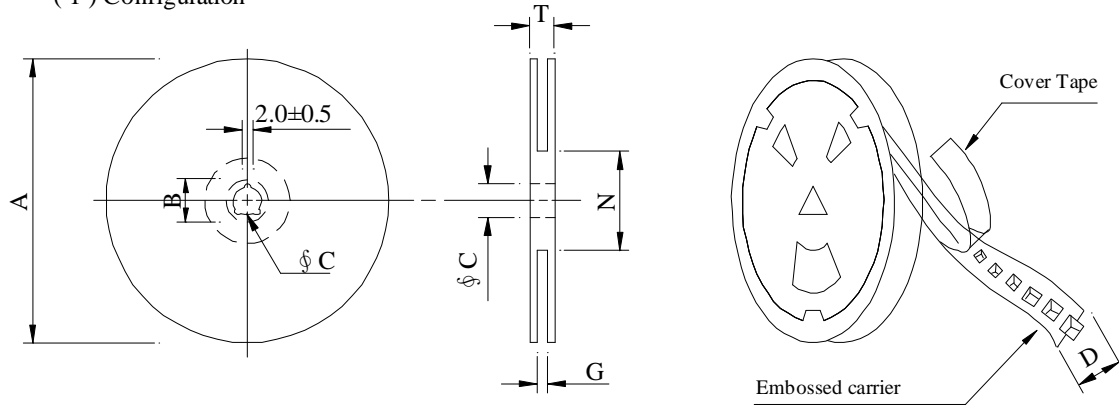
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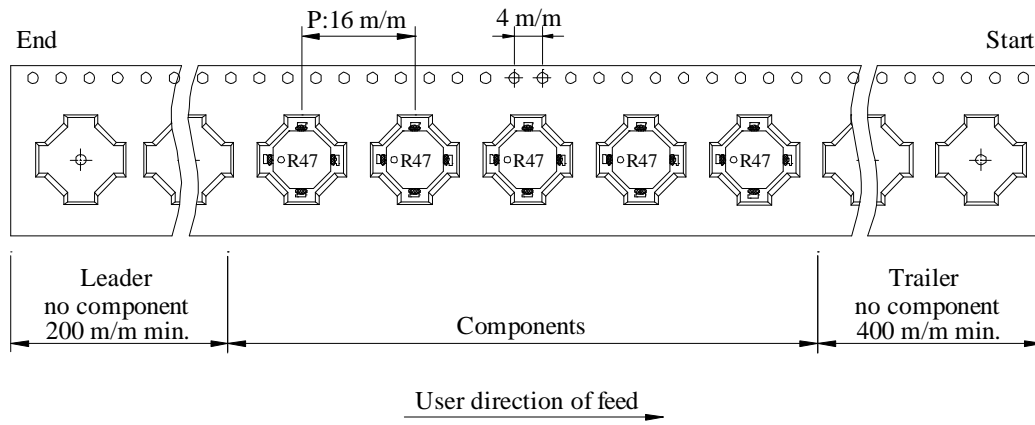
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VI . PACKAGING INFORMATION :

(1) Configuration



※Carrier tape width : D



(2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 24	330	21±0.8	13±0.5	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)
SF1105	600	800	13 - 24	2400	4.5	38 x 37 x 22

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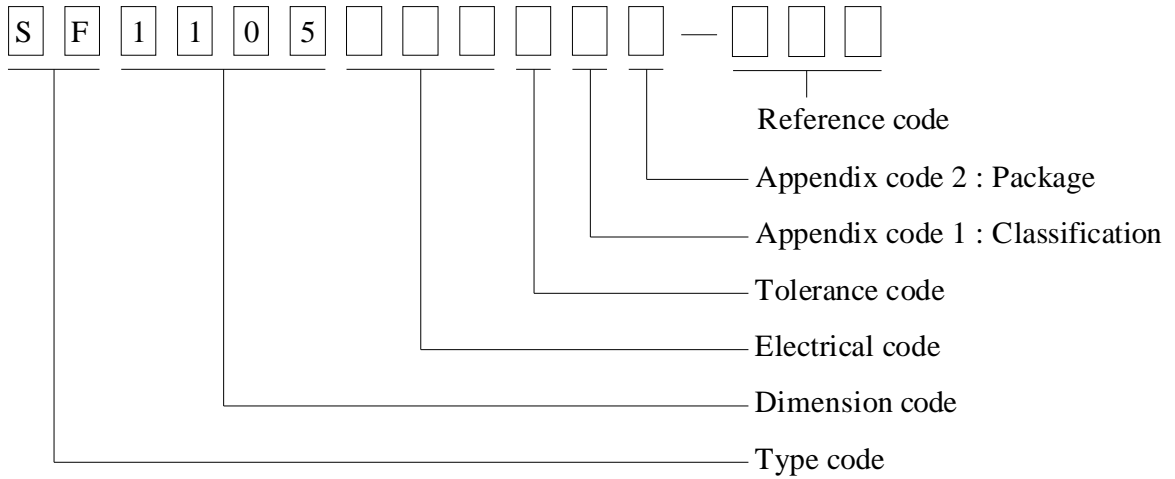
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VII . DWGING NUMBER EXPRESSION :



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)	600 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; vertical-align: middle;">→</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; vertical-align: middle;">→</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						
Humidity test		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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VIII . UL CARD :

OBMW2 October 06, 2005
 Magnet Wire-Component

ELEKTRISOLA (MALAYSLA) 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, MW-79	180, 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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