

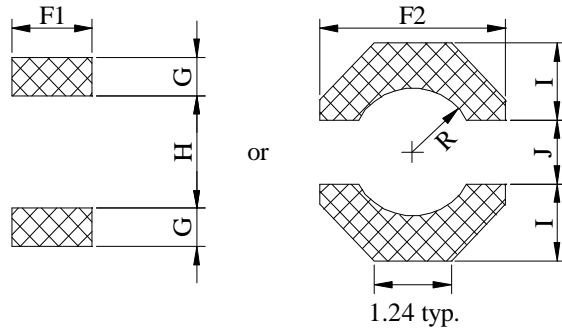
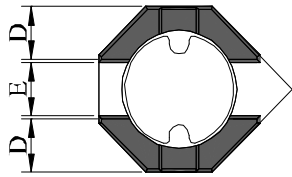
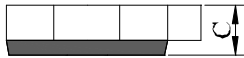
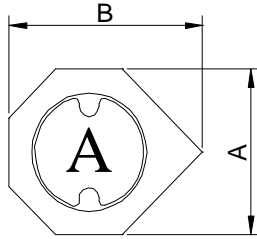
SPECIFICATION FOR APPROVAL

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PROD. NAME	SHIELDED SMD POWER INDUCTOR	ABC'S DWG NO.	SU2016□□□□P□-□□□
		ABC'S ITEM NO.	

I . CONFIGURATION & DIMENSIONS :



A	: 2.80 ±0.20	m/m
B	: 3.30 ±0.20	m/m
C	: 1.65 ±0.15	m/m
D	: 0.90 typ.	m/m
E	: 0.90 typ.	m/m
F1	: 1.30 ref.	m/m
F2	: 3.00 ref.	m/m
G	: 0.65 ref.	m/m
H	: 2.10 ref.	m/m
I	: 1.20 ref.	m/m
J	: 1.00 ref.	m/m
R	: 1.00 ref.	m/m

II . SCHEMATIC DIAGRAM :



(PCB Pattern Suggestion)

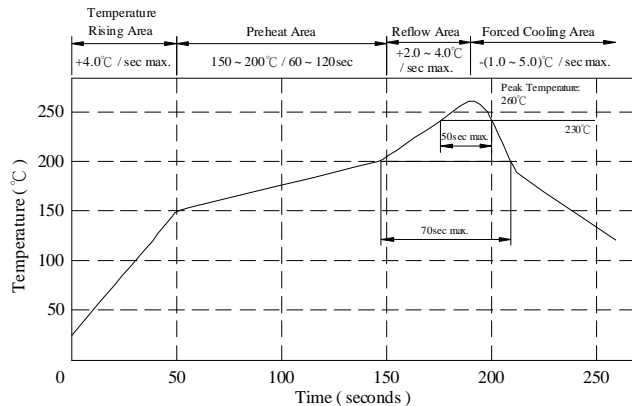
III . MATERIALS :

- 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

IV . GENERAL SPECIFICATION :

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

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



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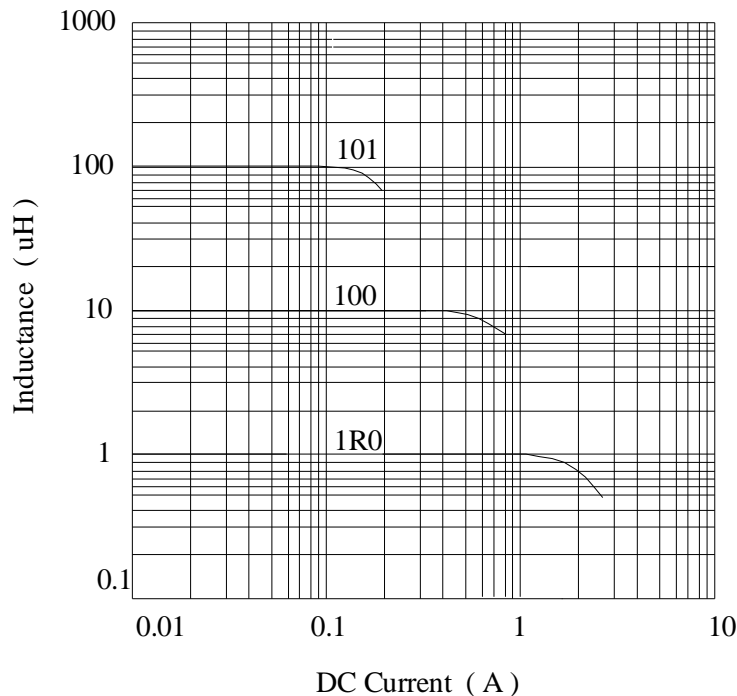
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V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μ H)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (m Ω)		Irms (mA) typ.	Isat (mA) typ.	Marking
					typ.	max.			
SU20161R0YP□-□□□	1.0 \pm 30 %	8	7.96	250	45	60	2200	1600	A
SU20162R2YP□-□□□	2.2 \pm 30 %	8	7.96	120	80	105	1600	1000	C
SU20163R0YP□-□□□	3.0 \pm 30 %	8	7.96	90	105	135	1500	870	E
SU20164R7YP□-□□□	4.7 \pm 30 %	8	7.96	80	165	215	1150	740	F
SU20166R0YP□-□□□	6.0 \pm 30 %	9	7.96	70	190	250	900	630	G
SU2016100YP□-□□□	10.0 \pm 30 %	9	2.52	45	330	430	875	520	H
SU2016150YP□-□□□	15.0 \pm 30 %	10	2.52	40	500	650	600	400	I
SU2016220YP□-□□□	22.0 \pm 30 %	12	2.52	30	760	990	430	370	J
SU2016330YP□-□□□	33.0 \pm 30 %	12	2.52	20	1125	1470	410	290	K
SU2016470YP□-□□□	47.0 \pm 30 %	15	2.52	20	1650	2100	310	220	L
SU2016680YP□-□□□	68.0 \pm 30 %	18	2.52	15	2700	3510	220	175	M
SU2016101YP□-□□□	100.0 \pm 30 %	25	0.796	10	3750	4900	190	155	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°C typ.
- 5). Isat base on $\Delta L / L0A=35\%$ typ.

@ Inductance VS. DC Current Curve



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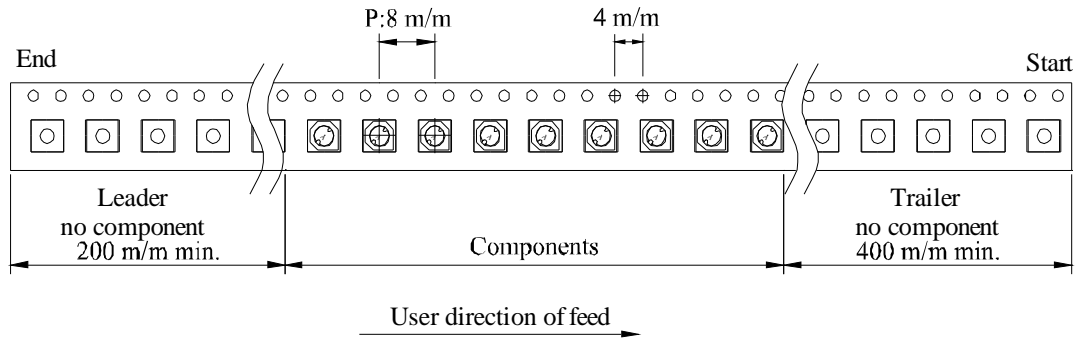
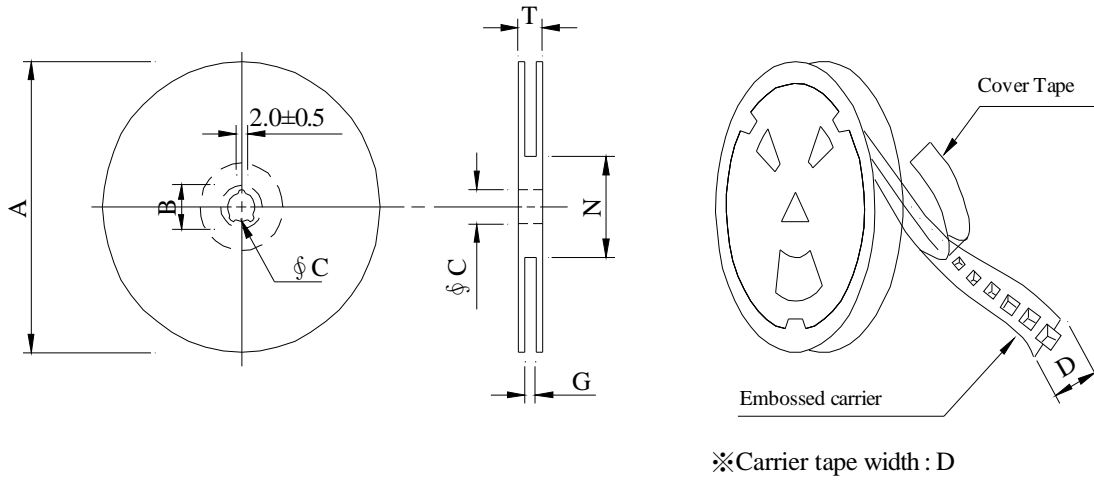
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VI . PACKAGING INFORMATION :

(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)
SU2016	1,000	120	07 - 12	40,000	6.2	42 x 41 x 24

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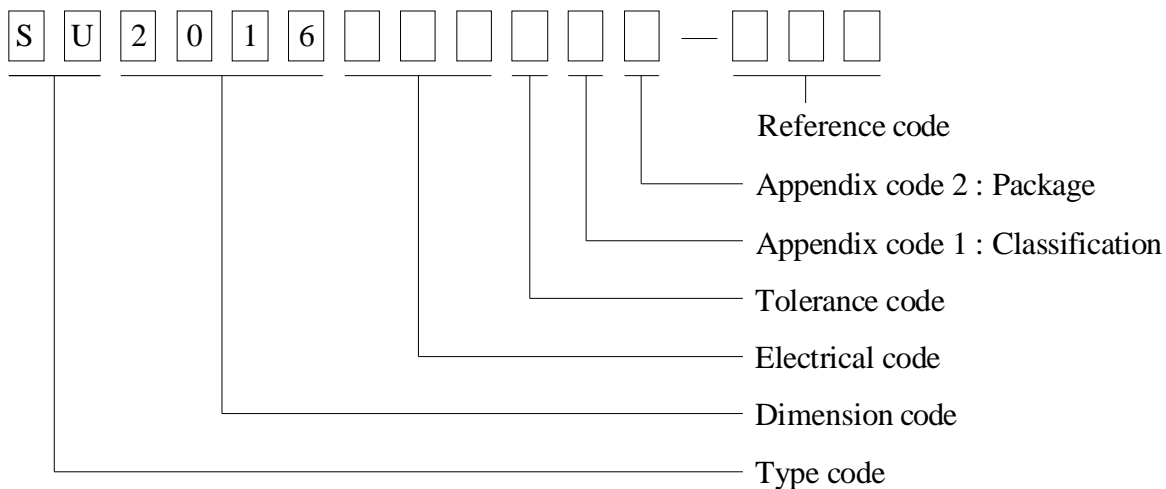
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VII . DWGING NUMBER EXPRESSION :



Appendix code 1 : Product Classification

- P : 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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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					
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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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 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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