

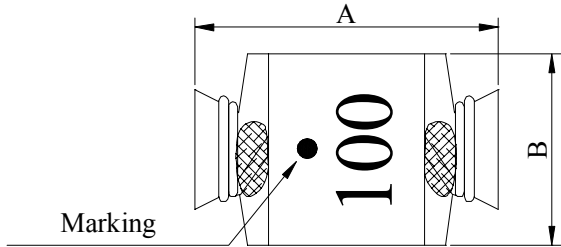
# SPECIFICATION FOR APPROVAL

REF :

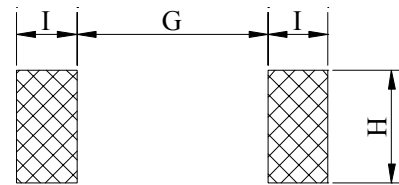
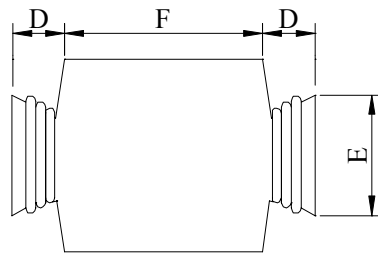
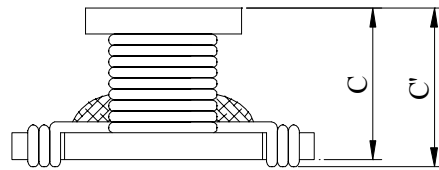
PAGE: 1

PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SQ0805□□□□L□-□□□
		ABC'S ITEM NO.	

**. CONFIGURATION & DIMENSIONS :**

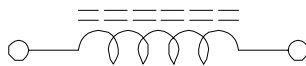


- A : 8.8±0.3      m/m
- B : 6.0±0.3      m/m
- C : 4.5±0.3      m/m
- C' : 5.0±0.7      m/m
- D : 1.4 ref.      m/m
- E : 3.4 ref.      m/m
- F : 6.0 ref.      m/m
- G : 5.0 ref.      m/m
- H : 4.0 ref.      m/m
- I : 2.0 ref.      m/m



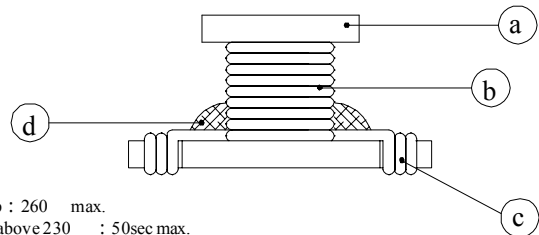
( PCB Pattern )

**. SCHEMATIC DIAGRAM :**



**. MATERIALS :**

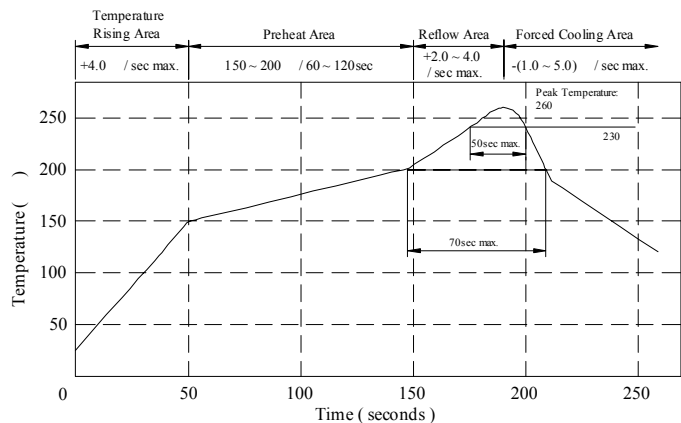
- a . Core : Ferrite DQ core
- b . Wire : Enamelled copper wire (class F)
- c . Terminal : Cu/Sn
- d . Adhesive : Epoxy resin
- e . Remark : Products comply with RoHS' requirements



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

**. GENERAL SPECIFICATION :**

- a . Temp. rese : 40 max.
- b . Rated current : Base no temp. rise & L / LOA=30% typ.
- c . Storage temp. : -40 ----+125
- d . Operating temp. : -40 ----+105
- e . Resistance to solder heat : 260 .10 secs.



# SPECIFICATION FOR APPROVAL

REF :

PAGE: 2

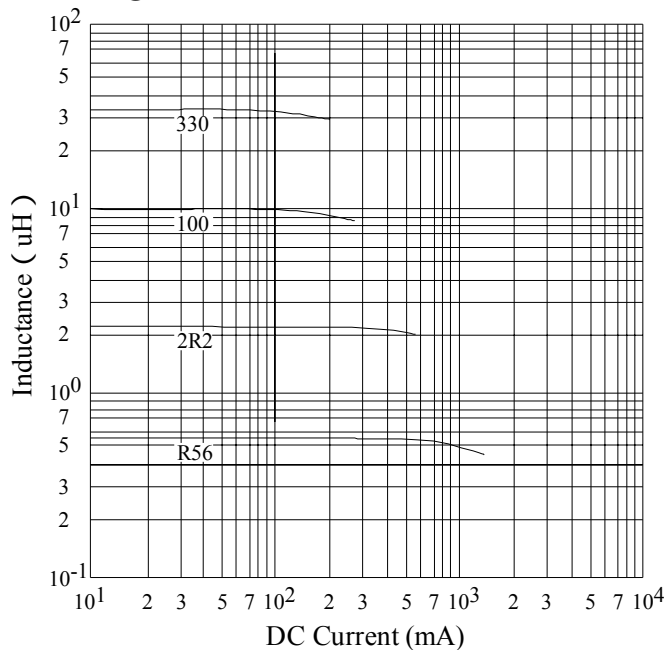
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		ABC'S ITEM NO.	

**. ELECTRICAL CHARACTERISTICS :**

DWG No.	Inductance ( $\mu$ H)	SRF ( MHz ) nom.	RDC ( m $\Omega$ ) max.	I <sub>rms</sub> ( A )	I <sub>sat</sub> ( A )
SQ0805R56ML□-□□□	0.56 $\pm$ 20%	200.0	4.50	9.00	12.00
SQ08051R2ML□-□□□	1.20 $\pm$ 20%	100.0	8.20	6.00	8.80
SQ08052R2ML□-□□□	2.20 $\pm$ 20%	75.0	16.00	4.50	6.50
SQ08054R7ML□-□□□	4.70 $\pm$ 20%	35.0	35.00	3.00	4.20
SQ0805100ML□-□□□	10.00 $\pm$ 20%	26.0	60.00	2.40	3.00
SQ0805150ML□-□□□	15.00 $\pm$ 20%	19.0	90.00	2.00	2.40
SQ0805220ML□-□□□	22.00 $\pm$ 20%	15.0	160.00	1.60	2.00
SQ0805330ML□-□□□	33.00 $\pm$ 20%	10.0	185.00	1.20	1.60
SQ0805470ML□-□□□	47.00 $\pm$ 20%	8.0	260.00	1.00	1.30

- 1). □ : Packaging information... [A]: Bulk [B]: Taping Reel
- 2). "- □□□ ":Reference code
- 3). Inductance Test Freq. at 100KHz / 0.25V.
- 4). I<sub>rms</sub> Base on T = 40 max.
- 5). I<sub>sat</sub> Base on L/L0A = 30% typ.

@ Inductance vs. DC Currnt curve.



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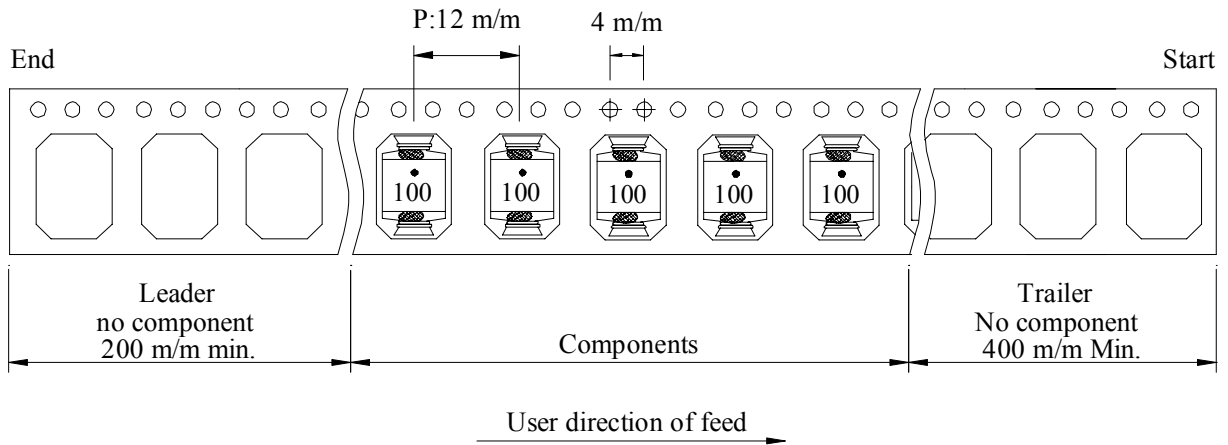
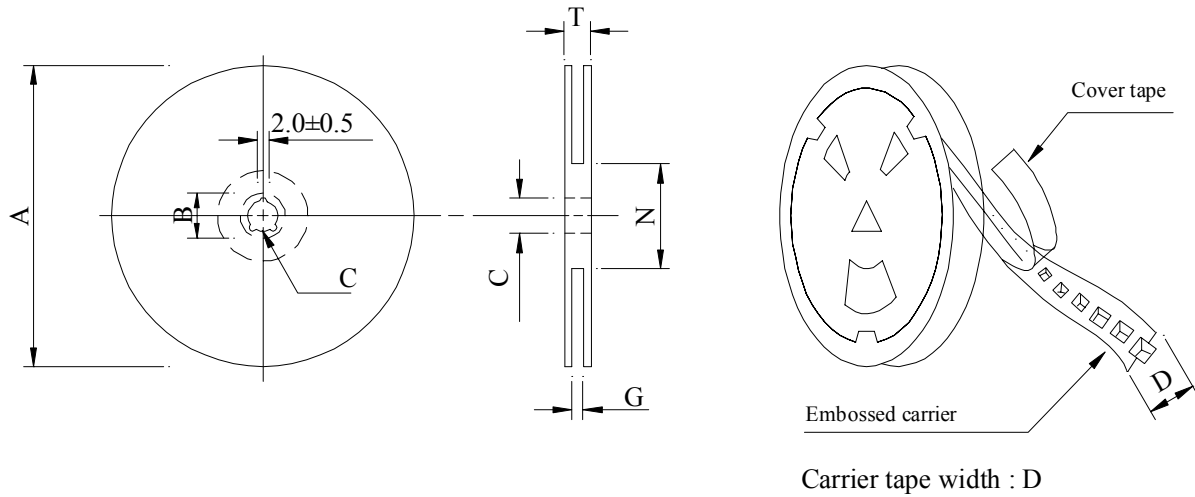
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PAGE: 3

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**PACKAGING INFORMATION :**

( 1 ) Configuration



( 2 ) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
13 - 16	330	21±0.8	13±0.5	16	18 <sup>+0</sup>	50 <sup>-0</sup>	22.4

( 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)
SQ0805	1,000	1,000	13 - 16	6,000	7.5	40 x 40 x 24

AE-001A



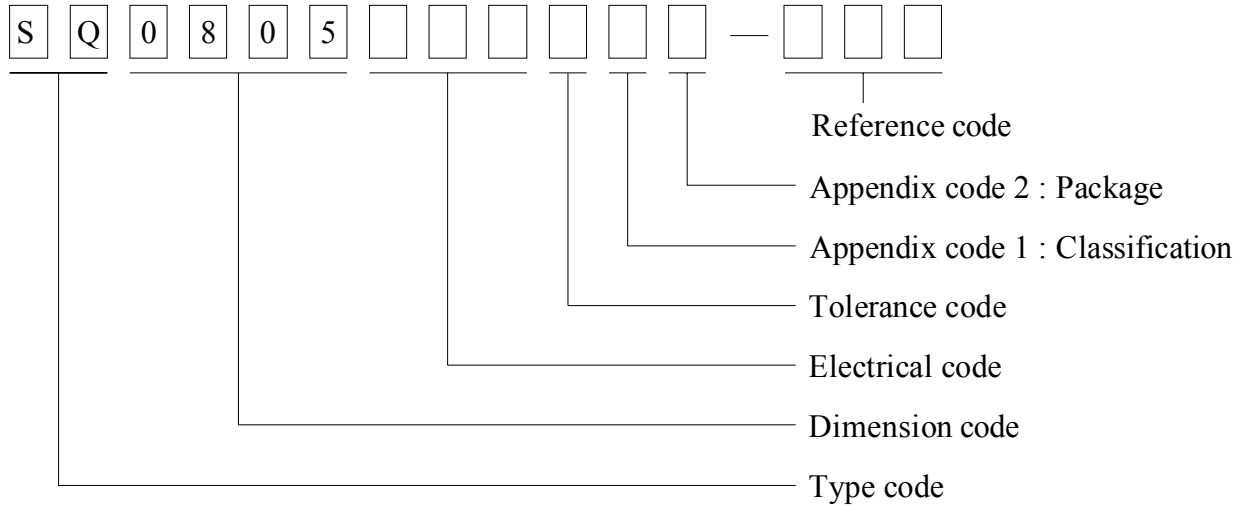
# SPECIFICATION FOR APPROVAL

REF :

PAGE: 4

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. 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	

# SPECIFICATION FOR APPROVAL

REF :

PAGE: 5

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**. 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 ±10%	<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; border-bottom: 1px solid black;">-25±2 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; border-bottom: 1px solid black;">85±2 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	-25±2 30 minutes	Room temp. 15 minutes	→	85±2 30 minutes
Room temp. 15 minutes	→	-25±2 30 minutes						
Room temp. 15 minutes	→	85±2 30 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						

# SPECIFICATION FOR APPROVAL

REF :

PAGE: 6

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		ABC'S ITEM NO.	

. UL CARD :

OBMW2
September 8, 2000

Magnet Wire-Component

JUNG SHING WIRE CO LTD
E174837

231 CHUNG CHENG RD, SEC 3 JEN-TEH HSIANG, TAINAN  
HSIEN TAIWAN

Mtl Dsg	Mark Dsg	BC	Coat Typ	OC	ANSI Type	Temp Class
AIW	---	Polyamideimide		---	MW81-C	220
CFUEWB	---	Polyurethane		---	MW75C	130
EIAIW	---	Polyesterimide		Polyamideimide	MW35C	200
EILOCKY	---	Polyesterimide		Polyamide	---	180
EILOCKW	---	Polyesterimide		Modified Epoxy	---	200
EIW	---	Polyesterimide		---	---	220
EIW-2	---	Polyesterimide		---	MW74-C	200
FL.EILOCKY	---	Modified Polyester		Polyamide	---	155
LSFFW	---	Polyurethane		---	MW79-C	155
LSUEW	---	Polyurethane		---	---	130
PEW	---	Polyester		---	---	155
PEY	---	Polyester		Nylon	MW24-C	155
SF.FLW	---	Modified Polyester		---	MW26C	155
SF.EIW	---	Polyesterimide		---	MW77C	180
SF.BY@	---	Modified Polyester		Nylon	MW27-C	155
SF.FLY@	---	Modified Polyester		Nylon	MW27-C	155
SF.BLOCKBS	---	Modified Polyester		Modified Polyamide	---	155
SF.EILOCKY#	---	Polyesterimide		Polyamide	---	180
SF.EILOCKBS	---	Polyesterimide		Modified Polyamide	---	180
SF.BW@	---	Modified Polyester		---	MW26C	155
SFFW	---	Polyurethane		---	MW79	155

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Page 1 of 2
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committed to quality service

Mtl Dsg	Mark Dsg	BC	Coat Typ	OC	ANSI Type	Temp Class
SFFY	---	Polyurethane		Polyamide	MW80C	155
UEW-1	---	Polyurethane		---	MW2-C	105
UEW-2	---	Polyurethane		---	---	130
UEW-4	---	Polyurethane		---	MW75C	130
UEY	---	Polyurethane		Nylon	MW28-C	130
UEY-2	---	Polyurethane		Polyamide	MW28-C	130

@-May be suffixed by LZ; # - May be suffixed by LZ, EL or LZL.  
 LZ - Signifies magnd wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signi-  
 fies base coated magnet wire twisted together and covered with top coat overall.  
 Marking: Company name or trademarks **(JSW)** or 榮星電線, material designation or marked designation on packaed or reel, and  
 Recognized Component Mark.

See General Information Preceding These Recognitions  
 For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

287806002
Page 2 of 2
OBMW2/E174837  
September 8, 2000