

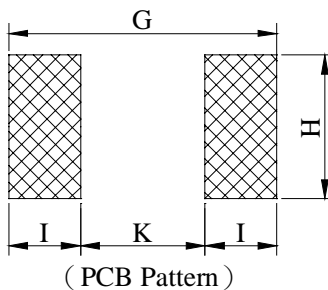
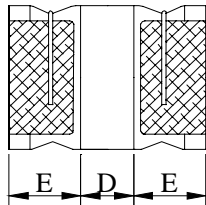
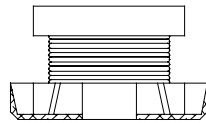
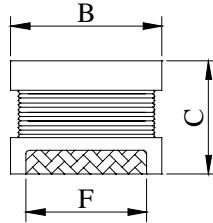
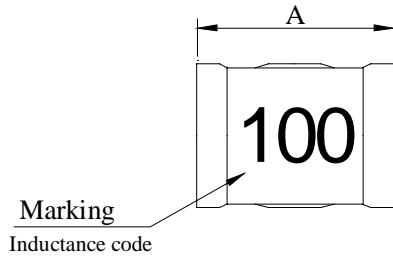
SPECIFICATION FOR APPROVAL

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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO.	SQ3225□□□□3□
		ABC'S ITEM NO.	

I . MECHANICAL DIMENSIONS :



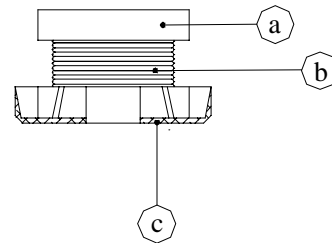
- A : 3.20±0.30 m/m
- B : 2.50±0.30 m/m
- C : 2.00±0.40 m/m
- D : 1.30 typ. m/m
- E : 1.20 ref. m/m
- F : 1.20 ref. m/m
- G : 3.80 ref. m/m
- H : 2.80 ref. m/m
- I : 1.40 ref. m/m
- K : 1.00 ref. m/m

II . SCHEMATIC DIAGRAM :



III . MATERIALS LIST :

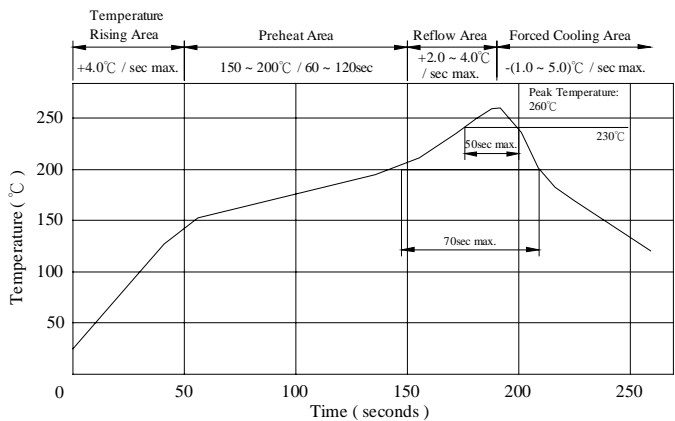
- a . Core : Ferrite core
- b . Wire : Enamelled copper wire (class F)
- c . Terminal : Ag/Ni/Sn
- d . Remark : Lead content 200 ppm max.
include ferrite



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

IV . GENERAL SPECIFICATION :

- a . Temp. rise : 20°C max.
- b . Storage temp. : -40°C ----+125°C
- c . Operating temp. : -25°C ----+105°C
- d . Rated current (Irms) :
Current cause inductance drop within 10%
- e . Resistance to solder heat : 260°C .10 secs.



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V . ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance (μ H)	Test Freq (Hz) L	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
SQ32251R0M3□	1.0 \pm 20%	1M	96.0	0.117	800
SQ32252R2M3□	2.2 \pm 20%	1M	64.0	0.169	600
SQ32254R7M3□	4.7 \pm 20%	1M	43.0	0.260	450
SQ3225100K3□	10.0 \pm 10%	1M	26.0	0.572	300
SQ3225220K3□	22.0 \pm 10%	1M	19.0	0.923	250
SQ3225470K3□	47.0 \pm 10%	1M	15.0	1.690	170
SQ3225101K3□	100.0 \pm 10%	1M	10.0	4.550	100
SQ3225221K3□	220.0 \pm 10%	1M	6.8	10.900	70
SQ3225331K3□	330.0 \pm 10%	1M	5.6	13.000	60
SQ3225391K3□	390.0 \pm 10%	1M	5.0	22.100	60
SQ3225471K3□	470.0 \pm 10%	1M	5.0	24.700	60
SQ3225561K3□	560.0 \pm 10%	1K	5.0	28.600	60

1)□ : Packaging Information... Bulk Taping Reel

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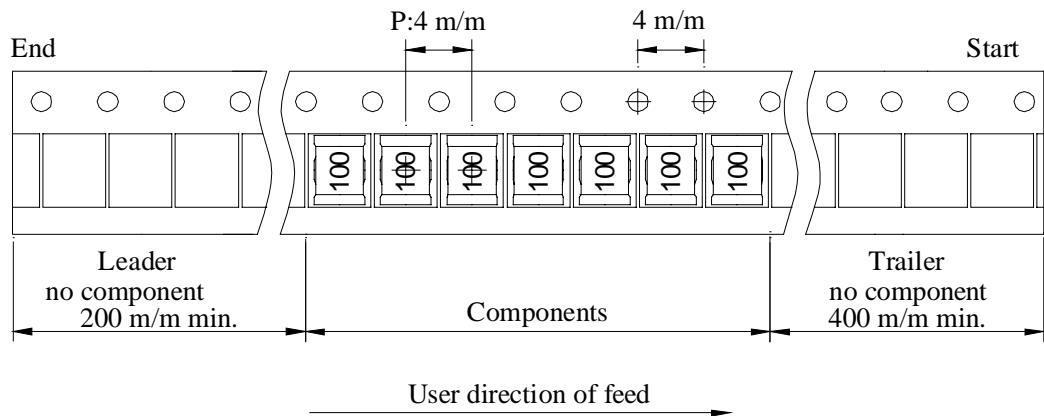
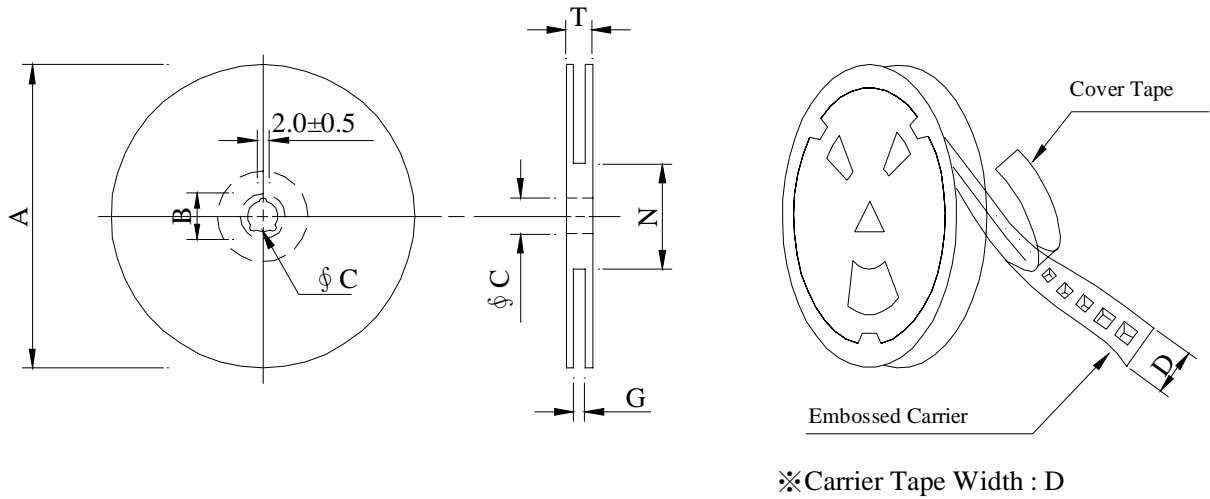
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VI . PACKAGING INFORMATION :

(1) Configuration



(2) Dimensions

Unit:m/m

STYLE	A	B	C	D	G	N	T
07 - 08	178	21±0.8	13	8	10 ⁺⁰	50 ⁻⁰	12.5

(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)
SQ3225	2,000	220	07 - 08	100,000	15.0	42 x 41 x 24

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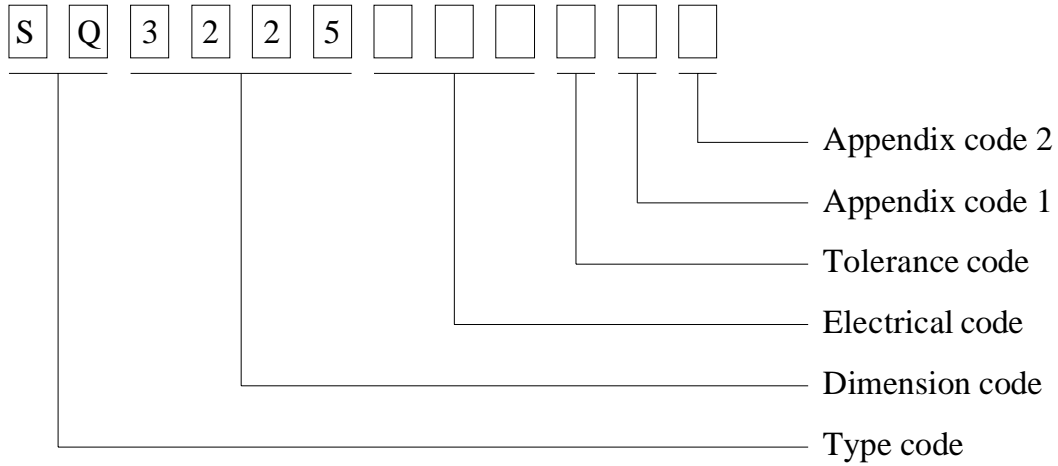
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VII . DWG EXPRESSION :



- Appendix code 1 : S : Standard products
 A ~ K , M ~ R , T ~ Z : Special products
 L : Standard Lead Free products
 1 ~ 9 : Special Lead Free products

Appendix code 2 :

Code	Inner package	Inner package QTY	Remark
A	Empty	Empty	
B	T / R (Reel package)	2000 pcs	

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VIII . RELIABILITY TEST :

Test item	Specification	Test condition						
Solderability	More than 90% of the terminal electrode shall be covered With fresh solder.	Preheat : 150±25°C for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5°C 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;">→</td> <td style="text-align: center;">-25±2 °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;">85±2 °C 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp. 15 minutes	→	-25±2 °C 30 minutes	Room temp. 15 minutes	→	85±2 °C 30 minutes
Room temp. 15 minutes		→	-25±2 °C 30 minutes					
Room temp. 15 minutes		→	85±2 °C 30 minutes					
Humidity Resistance test		Temperature : 40±2°C Humidity : 90 ~ 95% Applied current : Per spec. Time : 500 hours						
High temp. Resistance test	Temperature : 105±2°C Applied current : Per spec. Time : 500 hours							

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

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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 LZI.
 LZ - Signifies magened wires twisted together; EL - signifies base coated magnet wire laid parallel with top coat applied overall; LZL - signifies base coated magnet wire twisted together and covered with top coat overall.
 Marking: Company name or trademarks 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.

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