

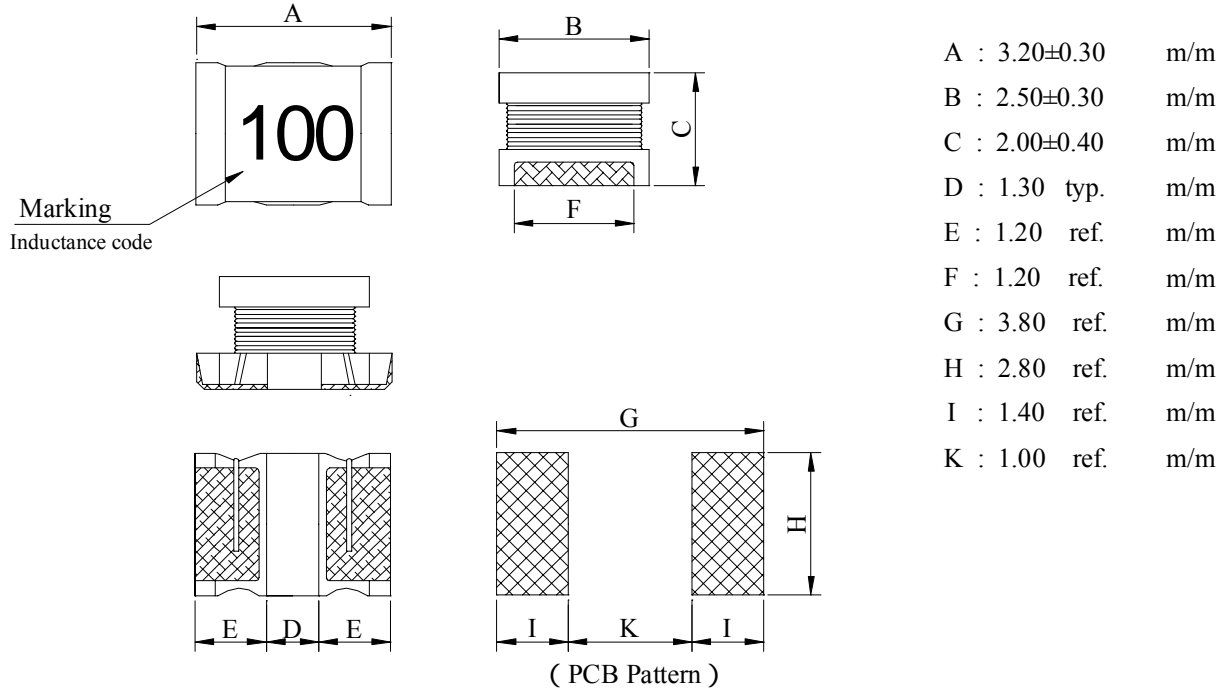
# SPECIFICATION FOR APPROVAL

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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SQ3225□□□□3□-□□□
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**. MECHANICAL DIMENSIONS :**

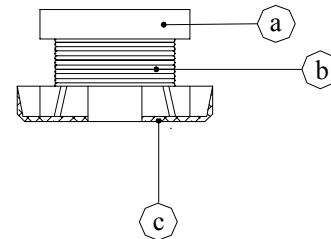


**. SCHEMATIC DIAGRAM :**



**. MATERIALS LIST :**

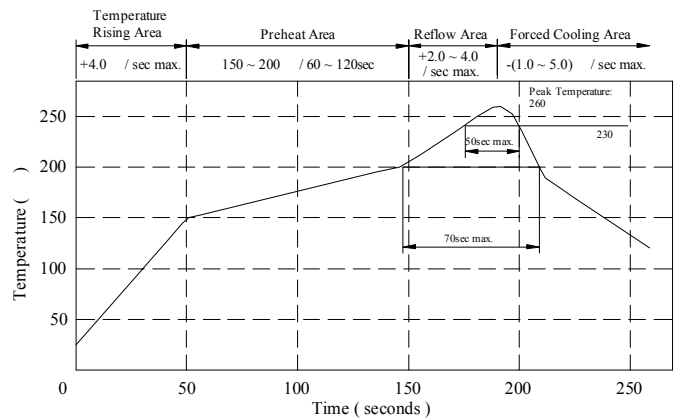
- a . Core : Ferrite core
- b . Wire : Enamelled copper wire (class F)
- c . Terminal : Ag/Ni/Sn
- d . Remark : Products comply with RoHS' requirements



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

**. GENERAL SPECIFICATION :**

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



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. ELECTRICAL CHARACTERISTICS :

DWG No.	Inductance ( $\mu$ H)	Test Freq (Hz) L	SRF (MHz) min.	RDC ( $\Omega$ ) 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...  A Bulk  B Taping Reel

2) . "-□□□":Reference code

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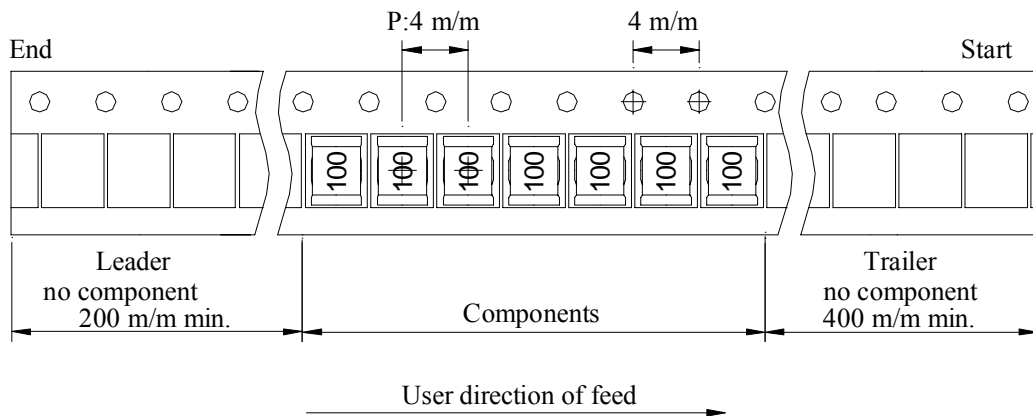
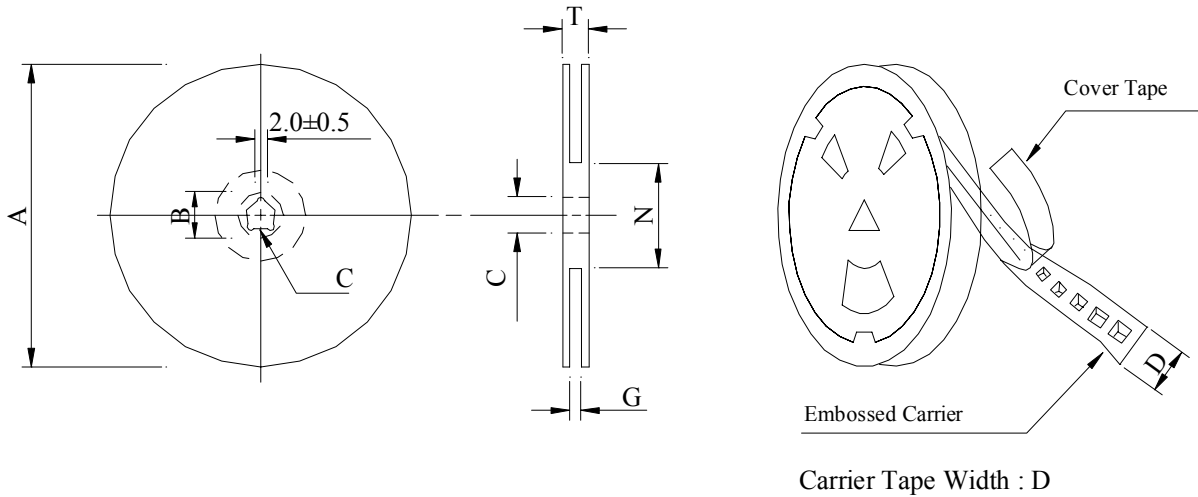
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**PACKAGING INFORMATION :**

(1) Configuration



(2) Dimensions

Unit:m/m

STYLE	A	B	C	D	G	N	T
07 - 08	178	21±0.8	13	8	10 <sup>+0</sup>	50 <sup>-0</sup>	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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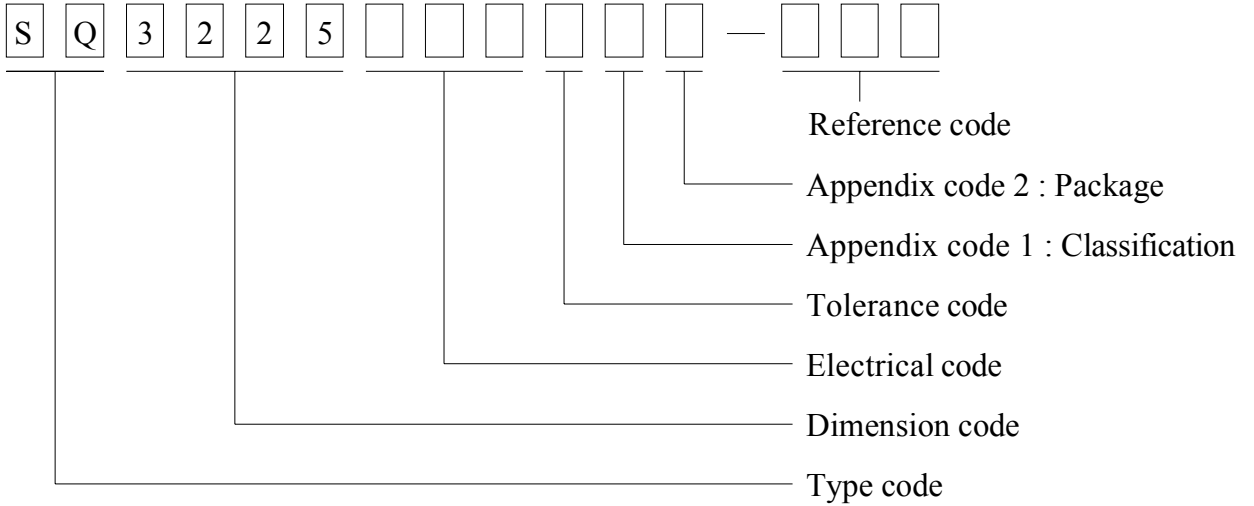
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· DWGING NUMBER EXPRESSION :



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 )	2000 pcs	

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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="border: none;">Room temp. 15 minutes</td> <td style="border: none; text-align: center;">→</td> <td style="border: none; text-align: center;">-25±2 30 minutes</td> </tr> <tr> <td style="border: none;">Room temp. 15 minutes</td> <td style="border: none; text-align: center;">→</td> <td style="border: none; text-align: center;">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						

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. 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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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 magnd 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 **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.

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September 8, 2000

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