

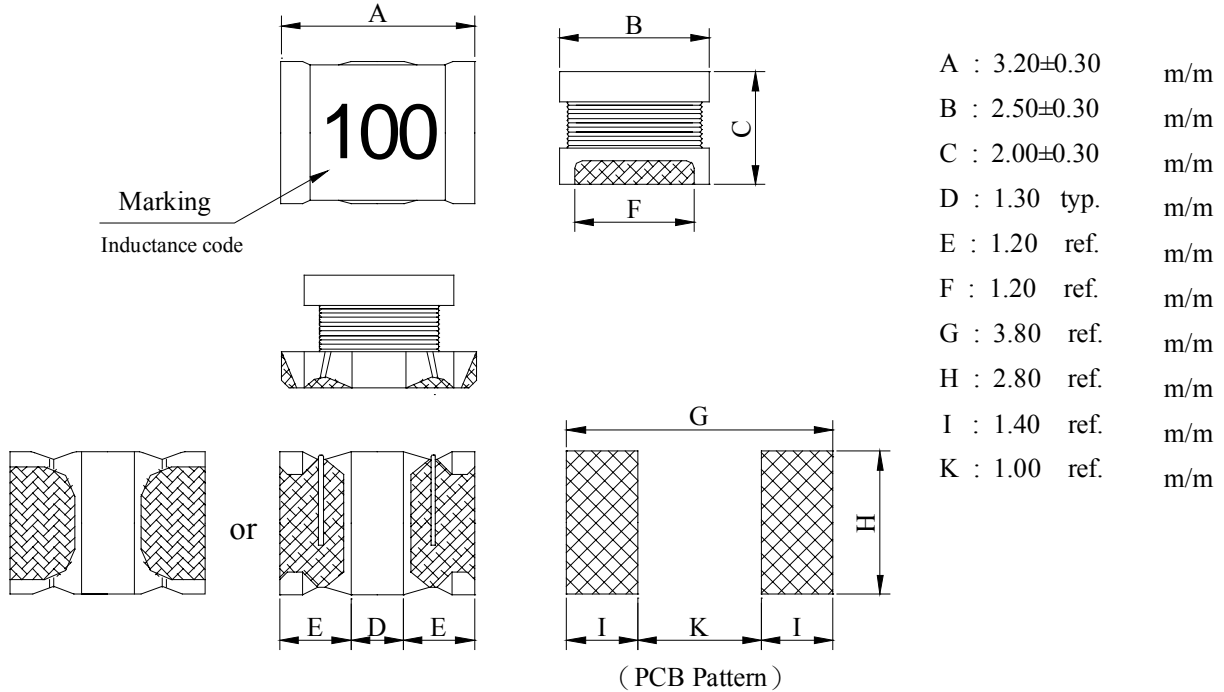
# SPECIFICATION FOR APPROVAL

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

## I . MECHANICAL DIMENSIONS :

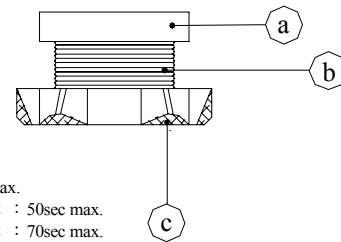


## II . SCHEMATIC DIAGRAM :



## III . MATERIALS LIST :

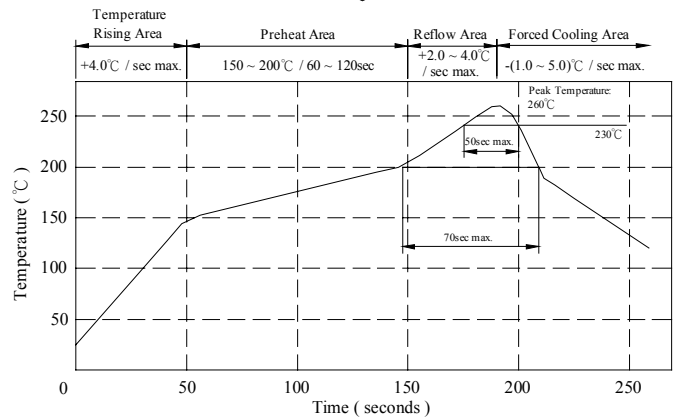
- a . Core : Ferrite core
- b . Wire : Enamelled copper wire (class F)
- c . Terminal : Ag/Ni/Sn
- d . Remark : Lead content 200ppm max.  
include ferrite



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 ( $\mu$ H)	Q ref.	Test Freq (Hz)		SRF (MHz) min.	RDC ( $\Omega$ ) max.	Irms 1 (mA)max. $\Delta$ T=20°C	Irms 2 (mA)max. $\Delta$ T=40°C
			L	Q				
SQ32251R0ML□	1.00 ± 20%	20	1M	1M	100.0	0.10	600	750
SQ32251R2ML□	1.20 ± 20%	20	1M	1M	100.0	0.12	580	720
SQ32251R5ML□	1.50 ± 20%	20	1M	1M	75.0	0.13	560	660
SQ32251R8ML□	1.80 ± 20%	20	1M	1M	60.0	0.14	520	640
SQ32252R2ML□	2.20 ± 20%	20	1M	1M	50.0	0.15	480	620
SQ32252R7ML□	2.70 ± 20%	20	1M	1M	43.0	0.18	430	600
SQ32253R3ML□	3.30 ± 20%	20	1M	1M	38.0	0.20	400	580
SQ32253R9ML□	3.90 ± 20%	20	1M	1M	35.0	0.25	360	540
SQ32254R7ML□	4.70 ± 20%	20	1M	1M	31.0	0.28	330	490
SQ32255R6ML□	5.60 ± 20%	20	1M	1M	28.0	0.36	300	440
SQ32256R8ML□	6.80 ± 20%	20	1M	1M	25.0	0.40	280	420
SQ32258R2ML□	8.20 ± 20%	20	1M	1M	23.0	0.45	260	390
SQ3225100KL□	10.00 ± 10%	35	1M	1M	20.0	0.65	220	320
SQ3225120KL□	12.00 ± 10%	35	1M	1M	18.0	0.70	200	290
SQ3225150KL□	15.00 ± 10%	35	1M	1M	16.0	1.00	180	270
SQ3225180KL□	18.00 ± 10%	35	1M	1M	15.0	1.10	170	240
SQ3225220KL□	22.00 ± 10%	35	1M	1M	14.0	1.30	155	220
SQ3225270KL□	27.00 ± 10%	35	1M	1M	13.0	1.60	130	165
SQ3225330KL□	33.00 ± 10%	40	1M	1M	12.0	1.85	120	160
SQ3225390KL□	39.00 ± 10%	40	1M	1M	11.0	2.00	115	152
SQ3225470KL□	47.00 ± 10%	40	1M	1M	11.0	3.00	110	146
SQ3225560KL□	56.00 ± 10%	40	1M	1M	10.0	3.20	105	138
SQ3225680KL□	68.00 ± 10%	35	1M	1M	9.0	3.80	96	130
SQ3225820KL□	82.00 ± 10%	35	1M	1M	8.5	5.60	85	105
SQ3225101KL□	100.00 ± 10%	40	1M	796K	8.0	6.50	80	100
SQ3225121KL□	120.00 ± 10%	40	1M	796K	7.5	7.00	75	95
SQ3225151KL□	150.00 ± 10%	40	1M	796K	7.0	9.20	70	86
SQ3225181KL□	180.00 ± 10%	40	1M	796K	6.0	10.20	65	80
SQ3225221KL□	220.00 ± 10%	40	1M	796K	5.5	11.80	65	75
SQ3225271KL□	270.00 ± 10%	40	1M	796K	5.0	14.80	60	70
SQ3225331KL□	330.00 ± 10%	40	1M	796K	5.0	16.50	55	65
SQ3225391KL□	390.00 ± 10%	46	1M	796K	5.0	22.00	50	60
SQ3225471KL□	470.00 ± 10%	46	1K	796K	5.0	25.00	45	55
SQ3225561KL□	560.00 ± 10%	46	1K	796K	5.0	28.00	40	48

1).□ : Packaging information... [A]: Bulk [B]: Taping Reel

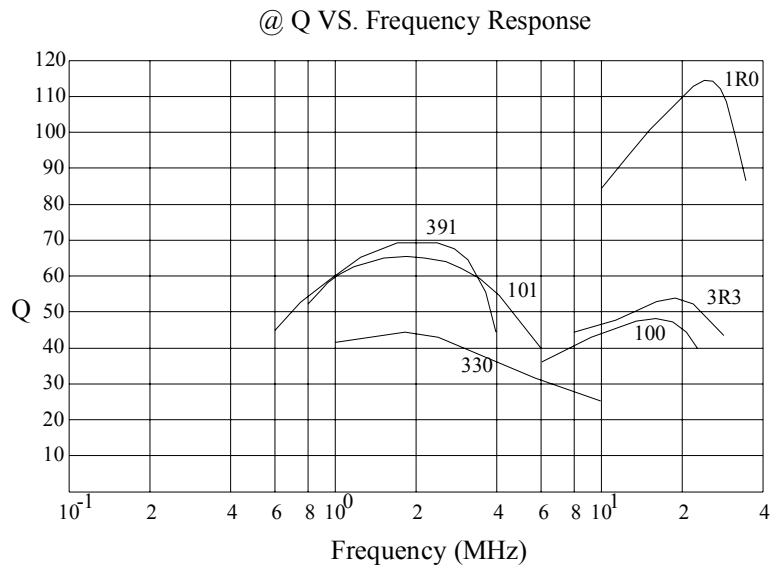
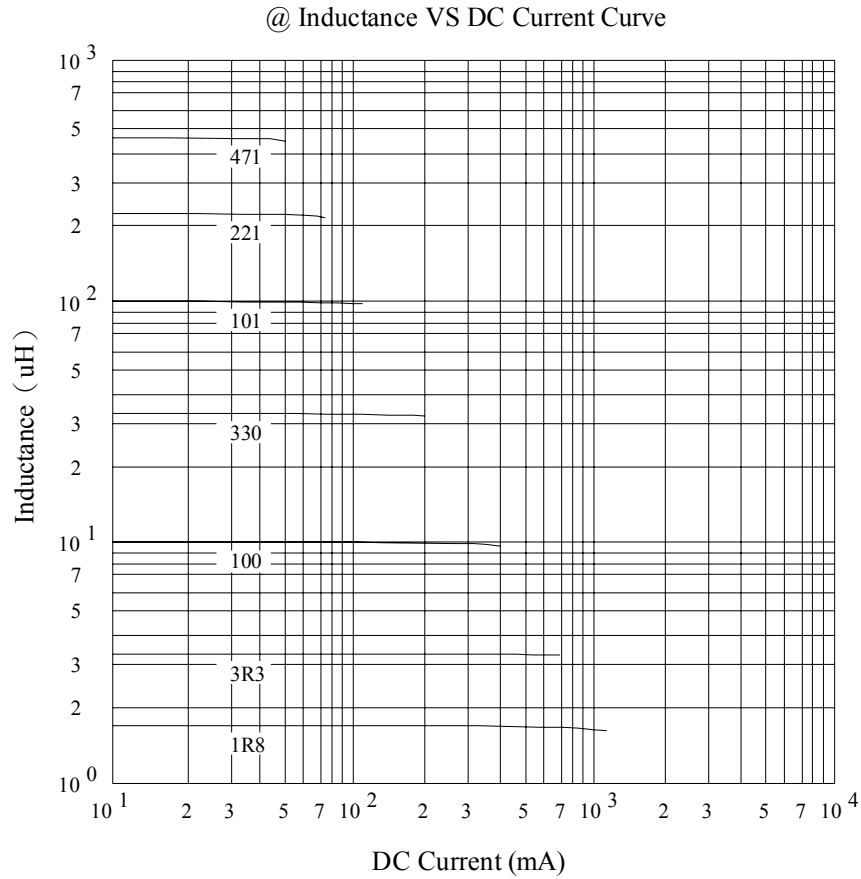
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VI . CURVE :



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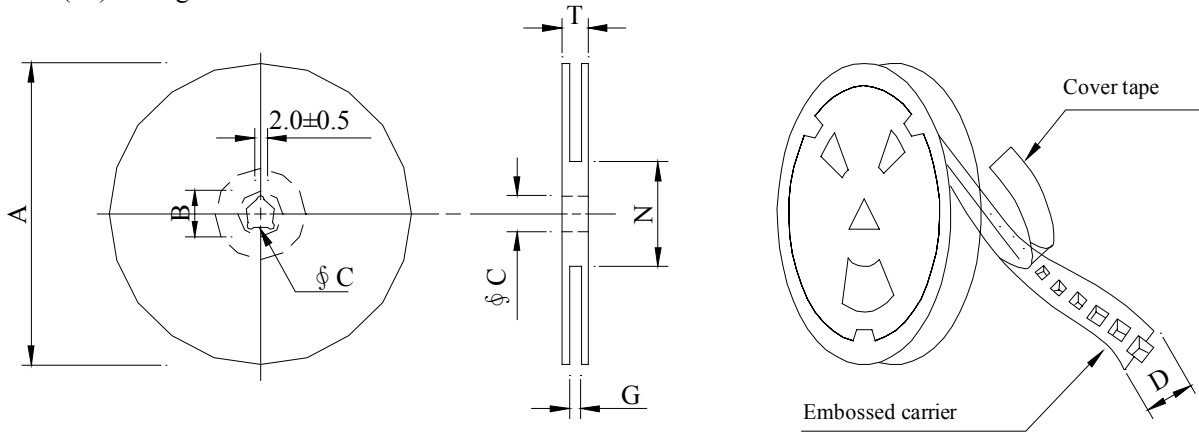
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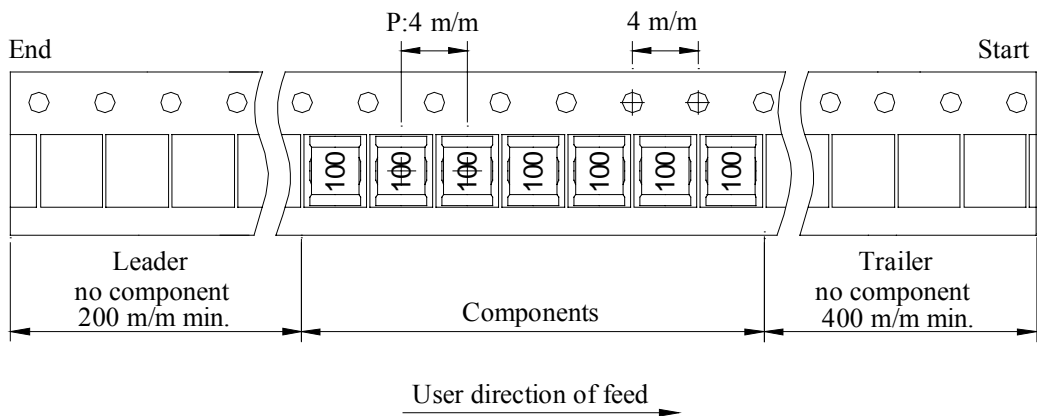
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**VII . PACKAGING INFORMATION :**

( 1 ) Configuration



※Carrier tape width : D



( 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	1,000	110	07 - 08	50,000	7.50	42 x 41 x 24

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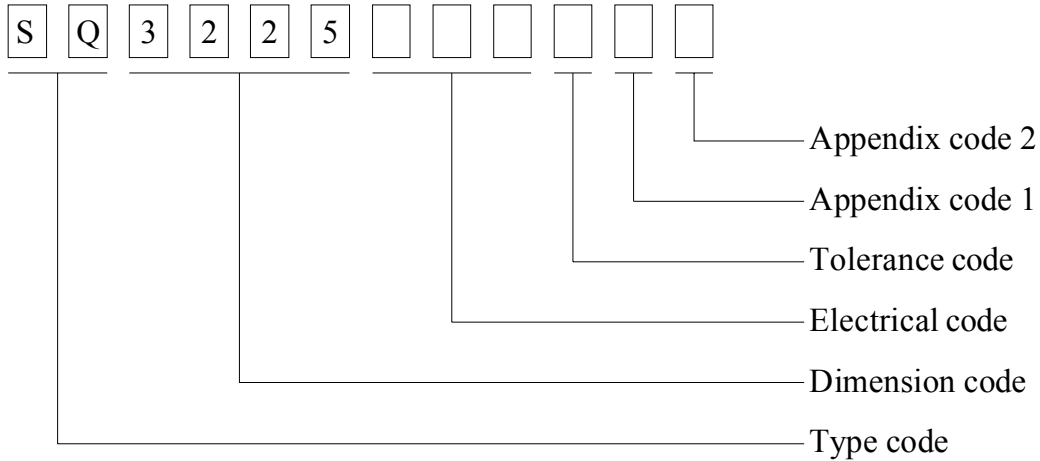
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**VIII . DWG EXPRESSION :**



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 Q'TY	Remark
A	Empty	Empty	
B	T / R ( Reel package )	1000 pcs	

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**IX . 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 ±20%	<table style="width: 100%; border: none;"> <tr> <td style="border: none;">Room temp.</td> <td style="border: none; text-align: center;">—————▶</td> <td style="border: none; text-align: center;">-25±2 °C</td> </tr> <tr> <td style="border: none;">15 minutes</td> <td style="border: none;"></td> <td style="border: none; text-align: center;">30 minutes</td> </tr> <tr> <td colspan="3" style="border: none;"> </td> </tr> <tr> <td style="border: none;">Room temp.</td> <td style="border: none; text-align: center;">—————▶</td> <td style="border: none; text-align: center;">85±2 °C</td> </tr> <tr> <td style="border: none;">15 minutes</td> <td style="border: none;"></td> <td style="border: none; text-align: center;">30 minutes</td> </tr> </table> <p>Total : 50 cycles</p>	Room temp.	—————▶	-25±2 °C	15 minutes		30 minutes				Room temp.	—————▶	85±2 °C	15 minutes		30 minutes
Room temp.	—————▶	-25±2 °C															
15 minutes		30 minutes															
Room temp.	—————▶	85±2 °C															
15 minutes		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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X . 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 LZL.  
 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 **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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