

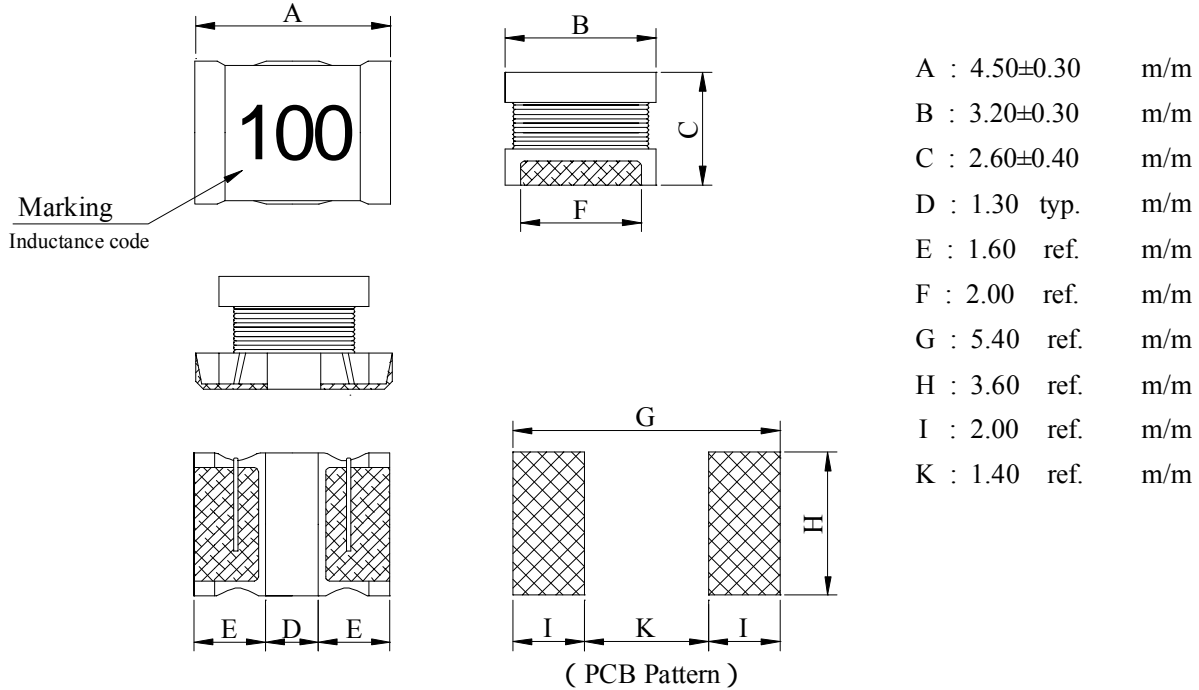
SPECIFICATION FOR APPROVAL

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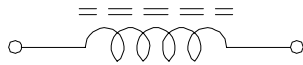
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PROD. NAME	SMD POWER INDUCTOR	ABC'S DWG NO. ABC'S ITEM NO.	SQ4532□□□□2□-□□□
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. MECHANICAL DIMENSIONS :

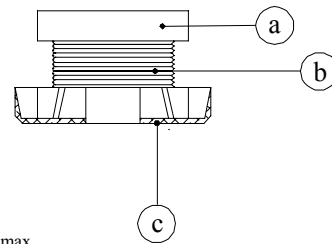


. SCHEMATIC DIAGRAM :



. MATERIALS LIST :

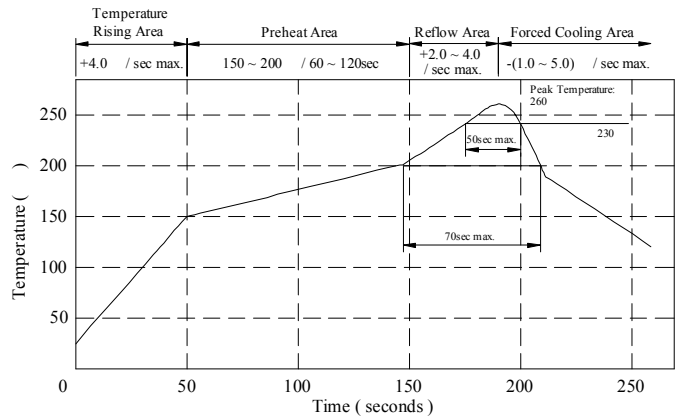
- a . Core : Ferrite core
- b . Wire : Enamelled copper wire (class F)
- c . Terminal : Ag/Ni/Sn
- d . Remark : Products comply with RoHS' requirements



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 (μ H)	Test Freq (Hz) L	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
SQ45321R0M2□-□□□	1.00 \pm 20%	1M	120.0	0.20	500
SQ45321R2M2□-□□□	1.20 \pm 20%	1M	100.0	0.20	500
SQ45321R5M2□-□□□	1.50 \pm 20%	1M	85.0	0.30	500
SQ45321R8M2□-□□□	1.80 \pm 20%	1M	75.0	0.30	500
SQ45322R2M2□-□□□	2.20 \pm 20%	1M	62.0	0.30	500
SQ45322R7M2□-□□□	2.70 \pm 20%	1M	53.0	0.32	500
SQ45323R3M2□-□□□	3.30 \pm 20%	1M	47.0	0.35	500
SQ45323R9M2□-□□□	3.90 \pm 20%	1M	41.0	0.38	500
SQ45324R7M2□-□□□	4.70 \pm 20%	1M	38.0	0.40	500
SQ45325R6M2□-□□□	5.60 \pm 20%	1M	33.0	0.47	500
SQ45326R8M2□-□□□	6.80 \pm 20%	1M	31.0	0.50	450
SQ45328R2M2□-□□□	8.20 \pm 20%	1M	27.0	0.56	450
SQ4532100M2□-□□□	10.00 \pm 20%	1M	23.0	0.56	400
SQ4532120M2□-□□□	12.00 \pm 20%	1M	21.0	0.62	380
SQ4532150M2□-□□□	15.00 \pm 20%	1M	19.0	0.73	360
SQ4532180M2□-□□□	18.00 \pm 20%	1M	17.0	0.82	340
SQ4532220K2□-□□□	22.00 \pm 10%	1M	15.0	0.94	320
SQ4532270K2□-□□□	27.00 \pm 10%	1M	14.0	1.10	300
SQ4532330K2□-□□□	33.00 \pm 10%	1M	12.0	1.20	270
SQ4532390K2□-□□□	39.00 \pm 10%	1M	11.0	1.40	240
SQ4532470K2□-□□□	47.00 \pm 10%	1M	10.0	1.50	220
SQ4532560K2□-□□□	56.00 \pm 10%	1M	9.3	1.70	200
SQ4532680K2□-□□□	68.00 \pm 10%	1M	8.4	1.90	180
SQ4532820K2□-□□□	82.00 \pm 10%	1M	7.5	2.20	170
SQ4532101K2□-□□□	100.00 \pm 10%	1M	6.8	2.50	160
SQ4532121K2□-□□□	120.00 \pm 10%	1M	6.2	3.00	150
SQ4532151K2□-□□□	150.00 \pm 10%	1M	5.5	3.70	130
SQ4532181K2□-□□□	180.00 \pm 10%	1M	5.0	4.50	120
SQ4532221K2□-□□□	220.00 \pm 10%	1M	4.5	5.40	110
SQ4532271K2□-□□□	270.00 \pm 10%	1M	4.0	6.80	100
SQ4532331K2□-□□□	330.00 \pm 10%	1M	3.6	8.20	95
SQ4532391K2□-□□□	390.00 \pm 10%	1M	3.3	9.70	90
SQ4532471K2□-□□□	470.00 \pm 10%	1K	3.0	11.80	80
SQ4532561K2□-□□□	560.00 \pm 10%	1K	2.7	14.50	70
SQ4532681K2□-□□□	680.00 \pm 10%	1K	2.5	17.00	65
SQ4532821K2□-□□□	820.00 \pm 10%	1K	2.2	20.50	60
SQ4532102K2□-□□□	1000.00 \pm 10%	1K	2.0	25.00	50
SQ4532122K2□-□□□	1200.00 \pm 10%	1K	1.8	30.00	45
SQ4532152K2□-□□□	1500.00 \pm 10%	1K	1.6	37.00	40
SQ4532182K2□-□□□	1800.00 \pm 10%	1K	1.5	45.00	35
SQ4532222K2□-□□□	2200.00 \pm 10%	1K	1.3	50.00	30

- 1). □ : Packaging Information... [A]: Bulk [B]: Taping Reel
 2). "-□□□":Reference code

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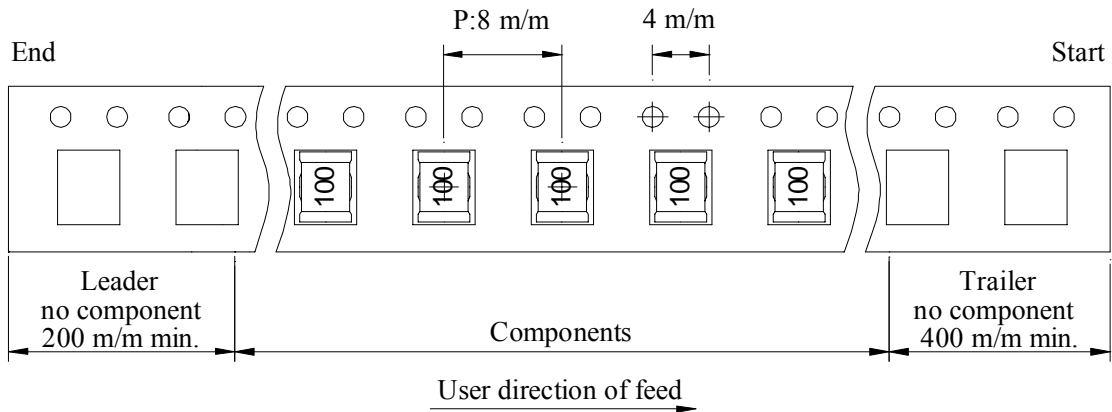
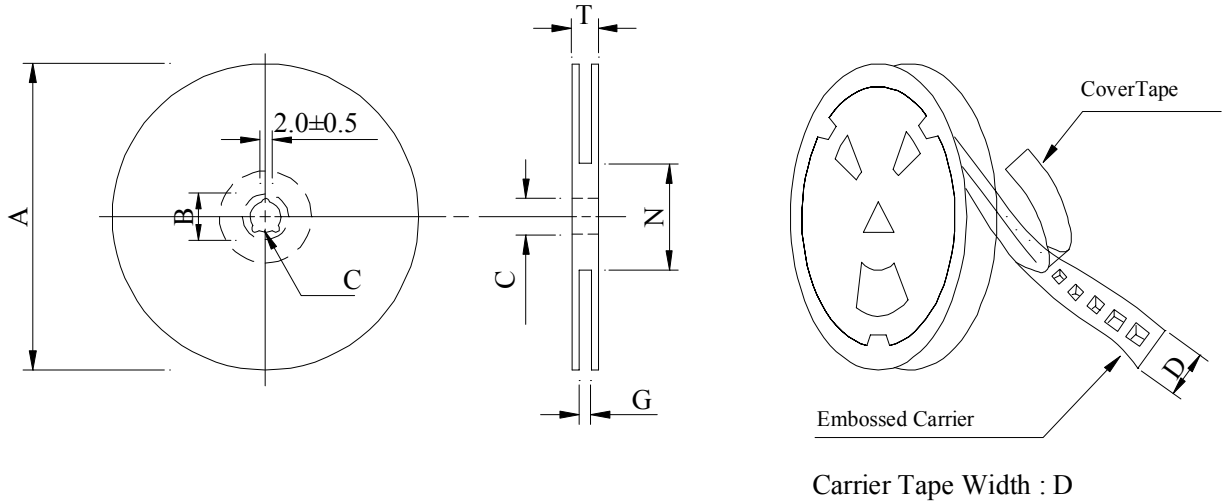
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PACKAGING INFORMATION :

(1) Configuration



(2) Dimensions

Unit:m/m

STYLE	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13	12	14 ⁺⁰	50 ⁻⁰	16.5
13 - 12	330	21±0.8	13±0.5	12	14 ⁺⁰	50 ⁻⁰	18.4

(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)
SQ4532	500	130	07 - 12	20,000	7.20	42 x 41 x 24
SQ4532	2000	540	13 - 04	16,000	6.50	40 x 40 x 24

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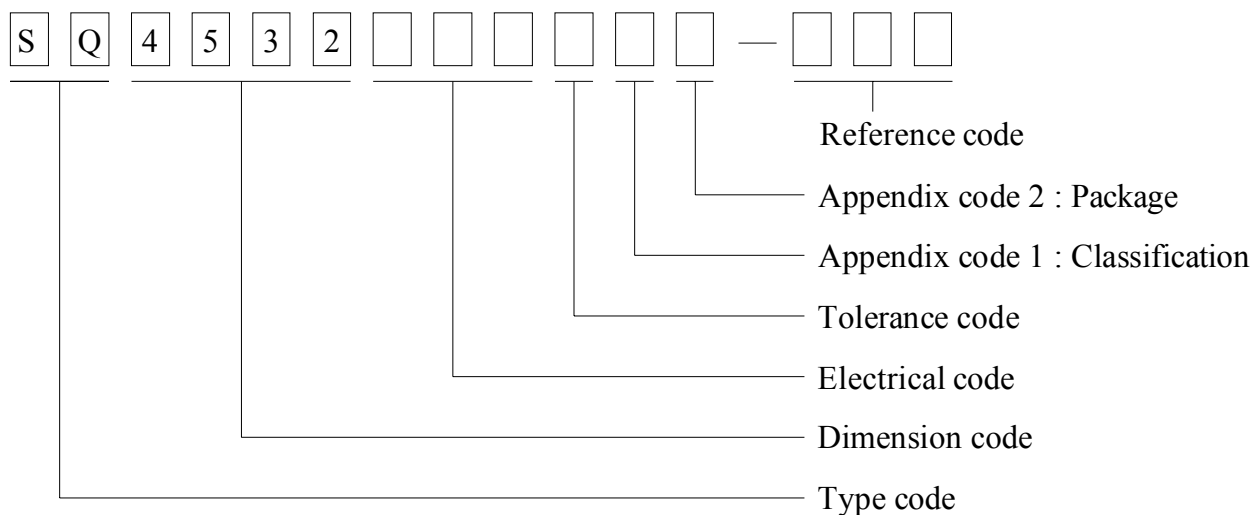
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. DWGING NUMBER EXPRESSION :



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)	500 pcs	
C	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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OBMW2E174837
September 8, 2000