

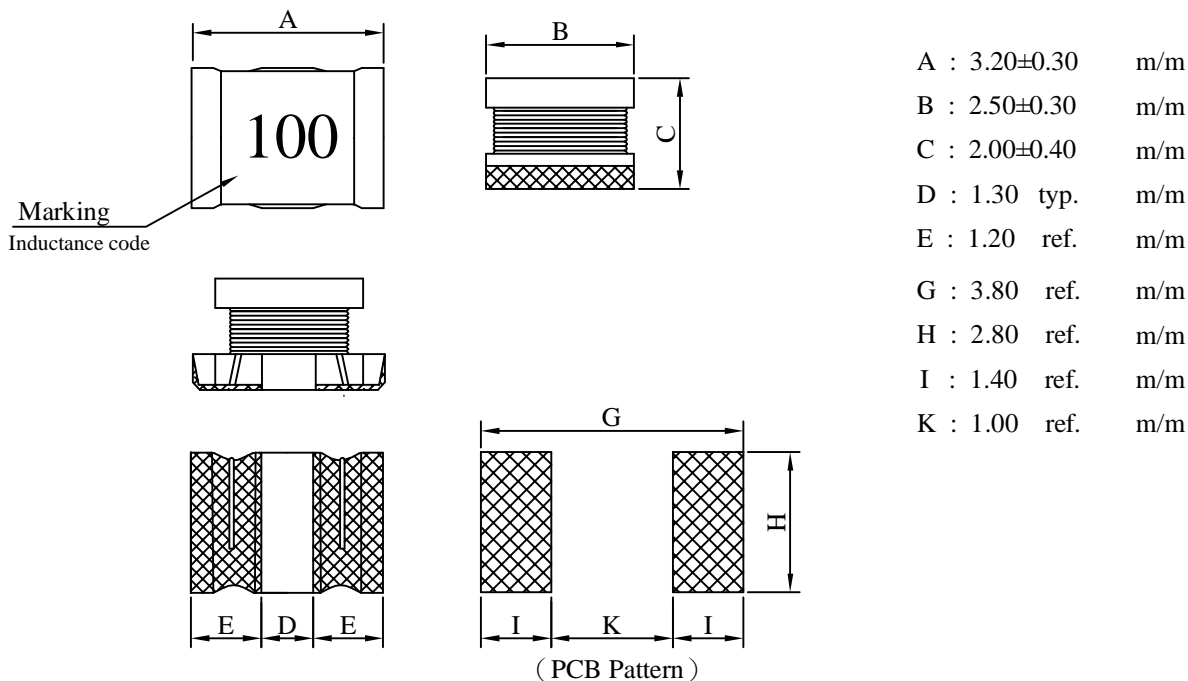
SPECIFICATION FOR APPROVAL

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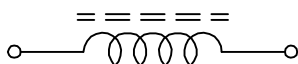
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|---------------|--------------------|---------------------------------|------------------|
| PROD. NAME | SMD POWER INDUCTOR | ABC'S DWG NO. ABC'S ITEM NO. | SQ3225□□□□3□-□□□ |
|---------------|--------------------|---------------------------------|------------------|

I . MECHANICAL DIMENSIONS :

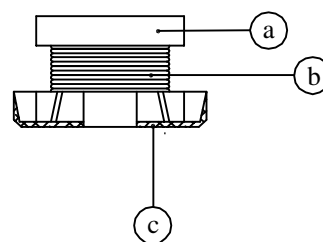


II . SCHEMATIC DIAGRAM :



III . MATERIALS LIST :

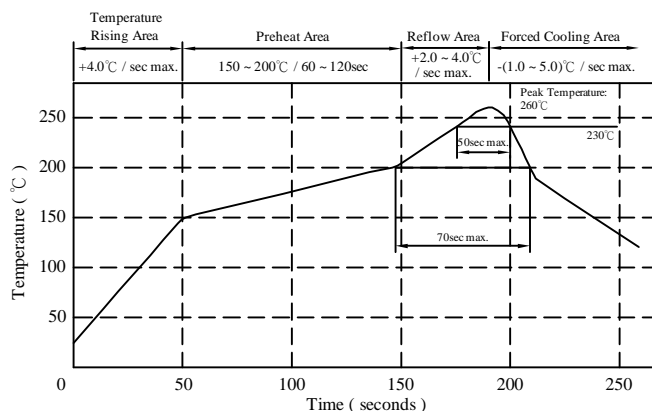
- a . Core : Ferrite core
- b . Wire : Enamelled copper wire (class F)
- c . Terminal : Ag/Ni/Sn
- d . Remark : Products comply with RoHS' requirements



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.

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



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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... A : Bulk B : Taping Reel

2) . "-□□□":Reference code

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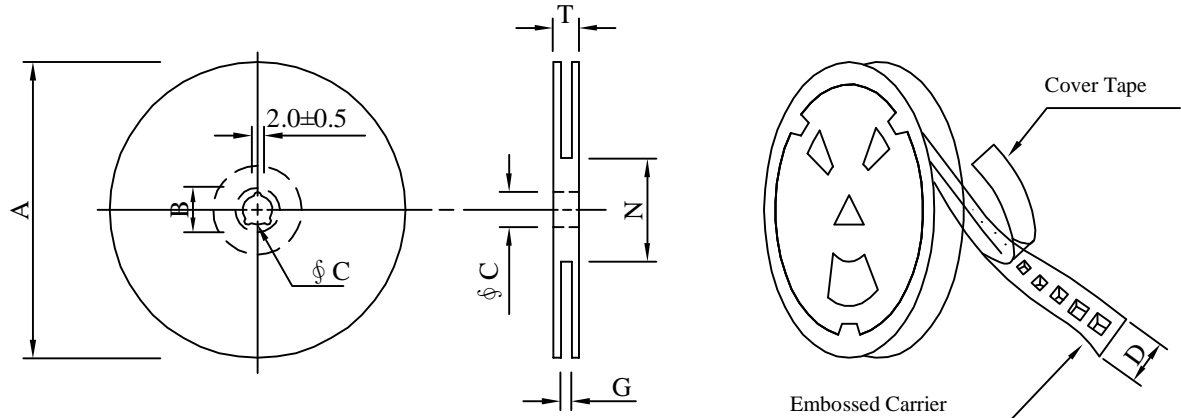
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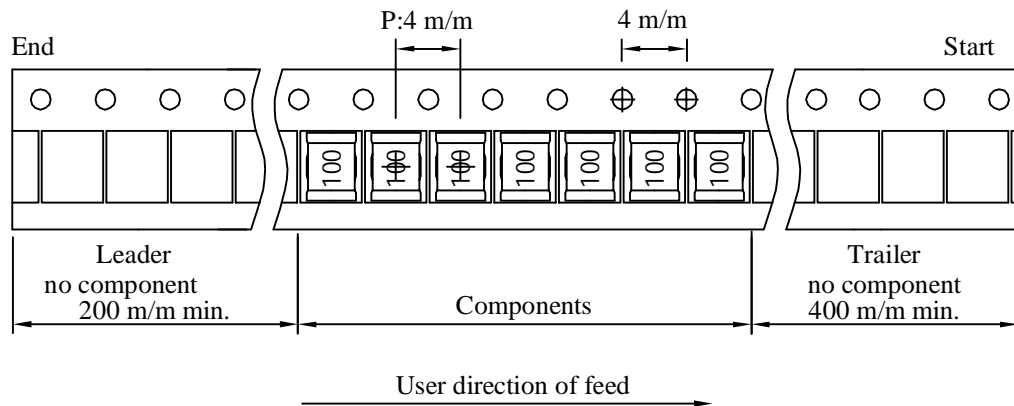
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VI . PACKAGING INFORMATION :

(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 ⁺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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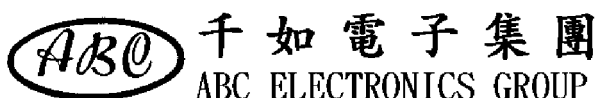
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VIII . RELIABILITY TEST :

| Test item | Specification | Test condition | | | | | | |
|---------------------------------------|---|---|--------------------------|---|----------------------|--------------------------|---|-----------------------|
| Solderability | More than 95% of the terminal electrode shall be covered With fresh solder. | Preheat : 155°C / 4 hours. Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder temp. : 235±5°C Flux : Rosin Dip time : 5±0.5 seconds | | | | | | |
| Thermal shock test (Temp. cycle) | Electrical oharacteristics shall not change more than ±20% | <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 °C 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;">+105 °C 30 minutes</td> </tr> </table> <p>Total : 50 cycles</p> | Room temp. 15 minutes | → | -25 °C 30 minutes | Room temp. 15 minutes | → | +105 °C 30 minutes |
| Room temp. 15 minutes | → | -25 °C 30 minutes | | | | | | |
| Room temp. 15 minutes | → | +105 °C 30 minutes | | | | | | |
| Humidity test | | Temperature : 40±2°C Humidity : 90±5% Time : 1000 hours | | | | | | |
| High temp. Resistance test | | Temperature : 105±5°C Applied current : Per spec. Time : 96 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 | 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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committed to quality service

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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 magnet 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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