

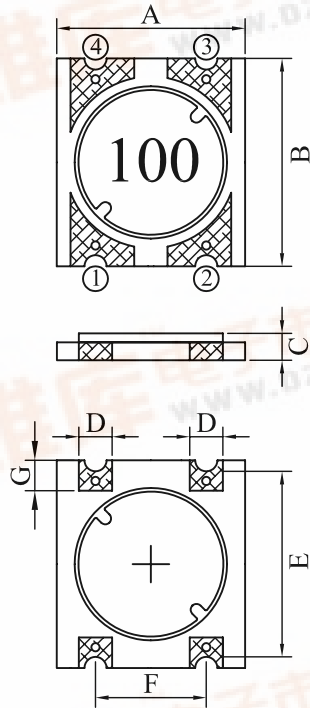
# SPECIFICATION FOR APPROVAL

查询"SB60114R7ML"供应商  
REF :

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|               |                    |                |                  |
|---------------|--------------------|----------------|------------------|
| PROD.<br>NAME | SMD POWER INDUCTOR | ABC'S DWG No.  | SB6011□□□□L□-□□□ |
|               |                    | ABC'S ITEM No. |                  |

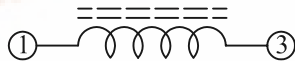
## I . CONFIGURATION & DIMENSIONS :



|   |        |      |     |
|---|--------|------|-----|
| A | : 6.80 | ±0.3 | m/m |
| B | : 7.50 | ±0.3 | m/m |
| C | : 1.05 | ±0.1 | m/m |
| D | : 1.20 | typ. | m/m |
| E | : 6.70 | typ. | m/m |
| F | : 4.00 | typ. | m/m |
| G | : 1.10 | ref. | m/m |
| H | : 1.40 | ref. | m/m |
| I | : 2.60 | ref. | m/m |
| J | : 7.90 | ref. | m/m |
| K | : 5.40 | ref. | m/m |
| L | : 1.50 | ref. | m/m |
| M | : 4.90 | ref. | m/m |

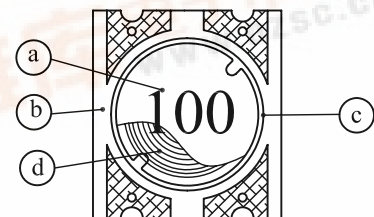
( PCB Pattern Suggestion )

## II . SCHEMATIC DIAGRAM :



## III . MATERIALS :

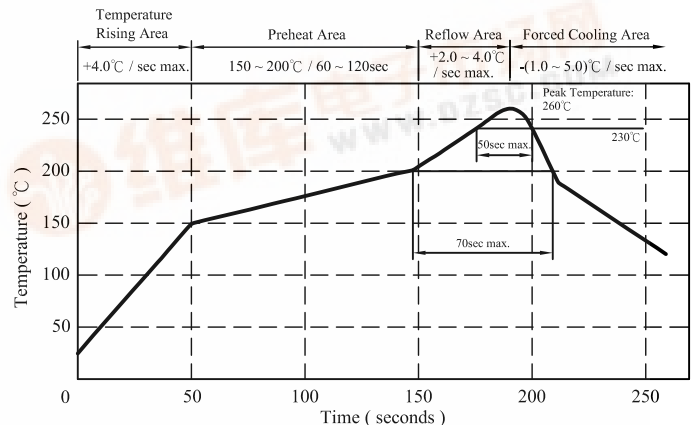
- a . Core : Ferrite DR core
- b . Base : PCB Base FR4
- c . Adhesive : Epoxy resin
- d . Wire : Enamelled copper wire (class F)
- e . Remark : Products comply with RoHS' requirements



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 : 40°C typ.
- b . Rated current : Base on Temp. rise &  $\Delta L/L0A=10\%$  max.
- c . Storage Temp. : -40°C ---- +125°C
- d . Operating Temp. : -40°C ---- +125°C  
( Included Temp. rise )
- e . Resistance to solder heat : 260°C.10 secs.



AR-001A

ABC 千如電子集團  
ABC ELECTRONICS GROUP.



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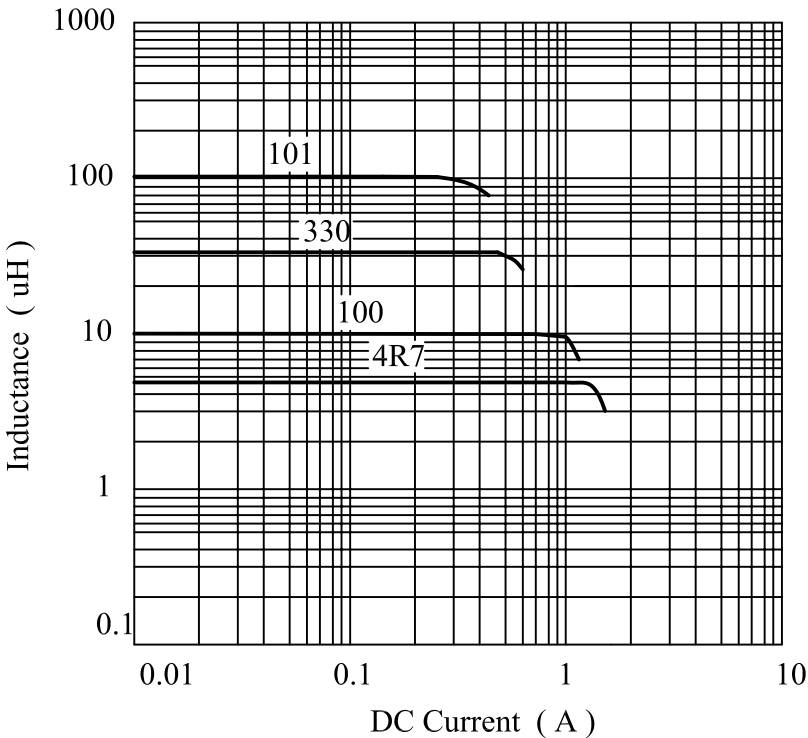
|               |                    |                |                  |
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## V . ELECTRICAL CHARACTERISTICS :

| DWG No.          | Inductance<br>( $\mu$ H ) | Test Freq.<br>( Hz ) | RDC<br>( $\Omega$ ) |       | Irms<br>( A )<br>typ. | Isat<br>( A )<br>max. |
|------------------|---------------------------|----------------------|---------------------|-------|-----------------------|-----------------------|
|                  |                           |                      | typ.                | max.  |                       |                       |
| SB60114R7ML□-□□□ | 4.7 $\pm$ 20%             | 100K                 | 0.096               | 0.130 | 1.20                  | 1.30                  |
| SB6011100ML□-□□□ | 10.0 $\pm$ 20%            | 100K                 | 0.210               | 0.260 | 0.80                  | 0.86                  |
| SB6011220ML□-□□□ | 22.0 $\pm$ 20%            | 100K                 | 0.450               | 0.560 | 0.50                  | 0.57                  |
| SB6011330ML□-□□□ | 33.0 $\pm$ 20%            | 100K                 | 0.650               | 0.780 | 0.39                  | 0.46                  |
| SB6011470ML□-□□□ | 47.0 $\pm$ 20%            | 100K                 | 0.910               | 1.100 | 0.32                  | 0.38                  |
| SB6011101ML□-□□□ | 100.0 $\pm$ 20%           | 100K                 | 2.050               | 2.500 | 0.21                  | 0.25                  |

- 1). □ : Packaging information ... [A]: Bulk [B]: Taping Reel  
2). "- □□□ ":Reference code  
3).Inductance Test Freq : 100KHz / 0.1V  
4). Irms Base on Temp. rise 40°C typ.  
Isat Bae on  $\Delta L/L0A=10\%$  max.

@ Inductance VS. DC Superposition Characteristics



# SPECIFICATION FOR APPROVAL

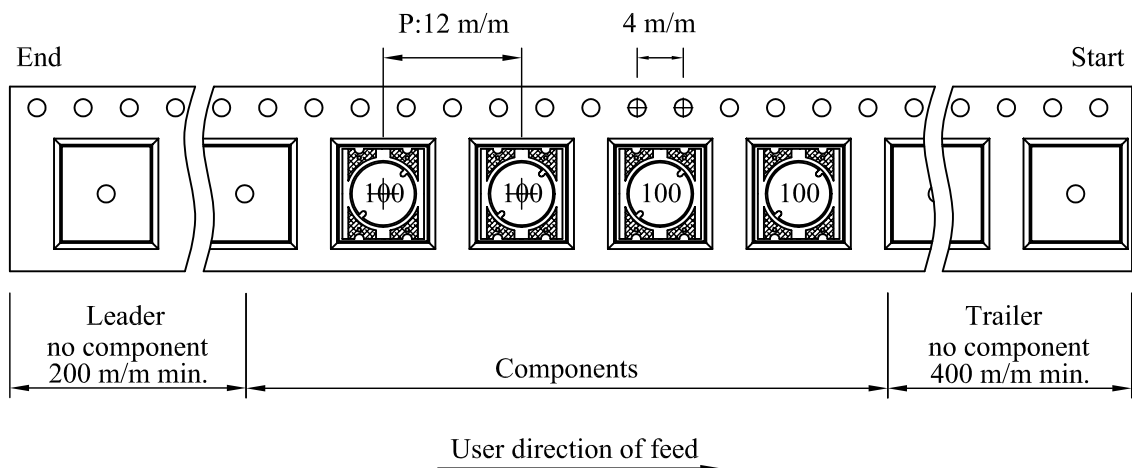
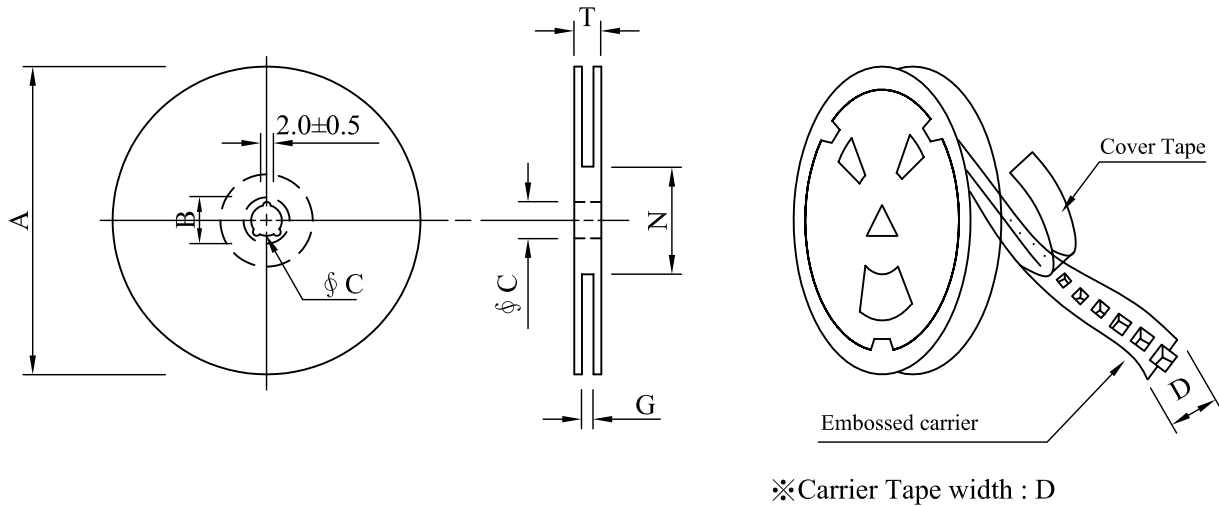
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|               |                    | ABC'S ITEM No. |                  |

## VI . PACKAGING INFORMATION :

### ( 1 ) Configuration



### ( 2 ) Dimensions

Unit:m/m

| Style | A   | B      | C  | D  | G                | N                | T    |
|-------|-----|--------|----|----|------------------|------------------|------|
| 07-16 | 178 | 21±0.8 | 13 | 16 | 18 <sup>+0</sup> | 50 <sup>-0</sup> | 20.5 |

### ( 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)    |
| SB6011 | 1000         | 120       | 07-16 | 30000          | 4.6       | 42 x 41 x 24 |

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|               |                    | ABC'S ITEM No. |                  |

S B 6 0 1 1       —

Type code

1 ~ 9 : Lead Free Special products comply with RoHS' requirements

| Code | Inner package          | Inner package Q'TY | Remark |
|------|------------------------|--------------------|--------|
| A    | T.B.D.                 | T.B.D.             |        |
| B    | T / R ( Reel package ) | 1000 pcs           |        |

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|               |                    | ABC'S ITEM No. |                  |

## VIII . RELIABILITY TEST :

| Test item                             | Specification                                                                     | Test condition                                                                                                                                                                           |
|---------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solderability                         | More than 90% of the terminal electrode<br>Shall be covered<br>With fresh solder. | Preheat : 150±25℃ for 60 seconds<br>Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent<br>Solder temp. : 235±5℃<br>Flux : Rosin<br>Dip time : 4±1 seconds                                       |
| Thermal shock test<br>( Temp. cycle ) | Inductance shall not change more than ±20%                                        | <div>Room temp.      →      -25±2 °C</div> <div>15 minutes      30 minutes</div><br><div>Room temp.      →      85±2 °C</div> <div>15 minutes      30 minutes</div><br>Total : 50 cycles |
| Humidity<br>Resistance test           |                                                                                   | Temperature : 40±2℃<br>Humidity : 90 ~ 95%<br>Applied current : Per spec.<br>Time : 500 hours                                                                                            |
| High temp.<br>Resistance test         |                                                                                   | Temperature : 85±2℃<br>Applied current : Per spec.<br>Time : 500 hours                                                                                                                   |

# SPECIFICATION FOR APPROVAL

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|               |                    | ABC'S ITEM No. |                  |

## 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<br>HSIEN TAIWAN |  |                   |  |

| Mtl<br>Dsg  | Mark<br>Dsg | BC                    | Coat Typ              | OC | ANSI<br>Type | Temp<br>Class |
|-------------|-------------|-----------------------|-----------------------|----|--------------|---------------|
| AIW         | —           | Polyamideimide        | —                     | —  | MW81-C       | 220           |
| CFUEWB      | —           | Polyurethane          | —                     | —  | MW75C        | 130           |
| EIAIW       | —           | Polyesterimide        | Polyamideimide        | —  | MW35C        | 200           |
| EILOCKY     | —           | Polyesterimide        | Polyamide             | —  | —            | 180           |
| EILOCKW     | —           | Polyesterimide        | Modified<br>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<br>Polyester | Modified<br>Polyamide | —  | —            | 155           |
| SF.EILOCKY# | —           | Polyesterimide        | Polyamide             | —  | —            | 180           |
| SF.EILOCKBS | —           | Polyesterimide        | Modified<br>Polyamide | —  | —            | 180           |
| SF.BW@      | —           | Modified Polyester    | —                     | —  | MW26C        | 155           |
| SFFW        | —           | Polyurethane          | —                     | —  | MW79         | 155           |

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committed to quality service

| Mtl<br>Dsg | Mark<br>Dsg | BC           | Coat Typ  | OC | ANSI<br>Type | Temp<br>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 - signi-  
fies 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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OBMW2/E174837  
September 8 , 2000

AR-001A

SPECIFICATION FOR APPROVAL

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| NAME  |                    |  |  |  | ABC'S ITEM No. |                  |  |  |  |

QMTS2

September 20, 2000

Polymeric Materials-Filament-wound Tubing. Industrial Laminates. Vulcanized Fiber, and Materials for Use in Fabricating Recognized Printed Wiring Boards - Component

TAIWAN LEADER COPPER CLAD LAMINATE CO LTD

E176891

| Clad Mil Deg                                                                                                                                      | ANSI Type | Base Mtl           |                | Clad Cond Thick |            | Max Area Dia In. (mm) | Soldering |       | UL94 Flame Class | Max Oper Temp |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|----------------|-----------------|------------|-----------------------|-----------|-------|------------------|---------------|
|                                                                                                                                                   |           | Min Thick In. (mm) | Min Mils (Mks) | Max Mils (Mks)  | Temp C     |                       | Time Sec  |       |                  |               |
| Metal clad industriai laminates for use in printed wiring boards, furnished in the form of sheets with copper clad-<br>ding on one or both sides. |           |                    |                |                 |            |                       |           |       |                  |               |
| JL-180L                                                                                                                                           | FR-5      | 0.025 (0.63)       | 0.67 (17)      | 2.68 (68)       | 2.0 (50.8) | 300                   | 30        | 94V-0 | 140              |               |
| LS-4                                                                                                                                              | FR-4      | 0.015 (0.38)       | 0.68 (17)      | 2.68 (68)       | 2.0 (50.8) | 280                   | 30        | 94V-0 | 130              |               |
|                                                                                                                                                   |           | 0.015 (0.38)       | 0.68 (17)      | 2.68 (68)       | 1.5 (38.1) | 288                   | 30        | 94V-0 | 130              |               |
| LS-4Y                                                                                                                                             | FR-4      | 0.015 (0.38)       | 0.67 (17)      | 2.68 (68)       | 2.0 (50.8) | 288                   | 30        | 94V-0 | 130              |               |

3/7/2001

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