

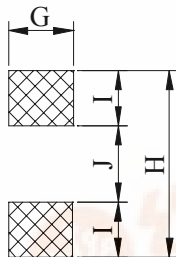
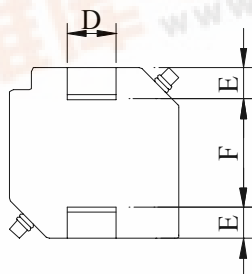
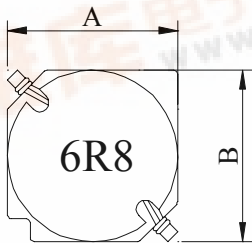
SPECIFICATION FOR APPROVAL

REF: 查询"SB13056R8YL"供应商

PAGE: 1

|               |                    |                |                  |
|---------------|--------------------|----------------|------------------|
| PROD.<br>NAME | SMD POWER INDUCTOR | ABC'S DWG NO.  | SB1305□□□□L□-□□□ |
|               |                    | ABC'S ITEM NO. |                  |

I . CONFIGURATION & DIMENSIONS :



|     |            |     |
|-----|------------|-----|
| A : | 12.70±0.3  | m/m |
| B : | 12.70±0.3  | m/m |
| C : | 4.80±0.3   | m/m |
| D : | 3.00 typ   | m/m |
| E : | 2.00 typ   | m/m |
| F : | 8.60 typ   | m/m |
| G : | 3.60 ref.  | m/m |
| H : | 13.60 ref. | m/m |
| I : | 2.60 ref.  | m/m |
| J : | 8.40 ref.  | m/m |

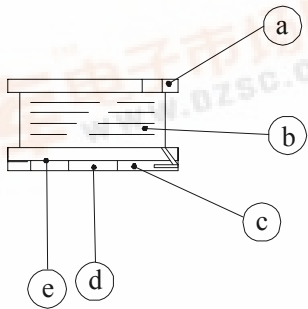
II . SCHEMATIC DIAGRAM :



(PCB Pattern)

III . MATERIALS :

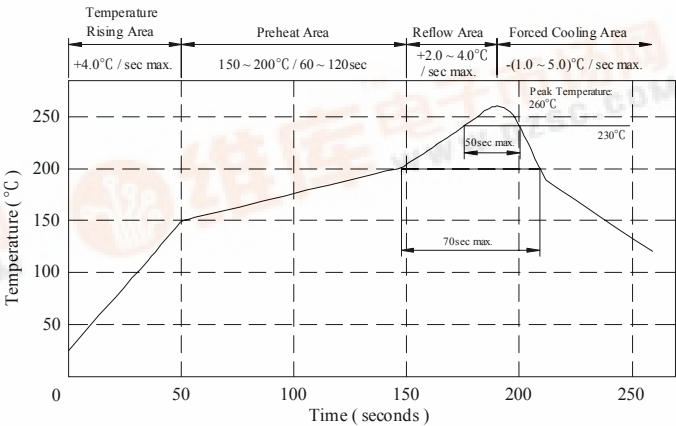
- a . Core : Ferrite DR core
- b . Wire : Enamelled copper wire (class F)
- c . Base : LCP E4008
- d . Terminal : Cu/Sn
- e . Adhesive : Epoxy resin
- f . Remark : Products comply with RoHS' requirements



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 max.
- b . Storage Temp. : -40°C ----+125°C
- c . Operating Temp. : -40°C----+125°C  
(Temp. rise included)
- d . Resistance to solder heat : 260°C.10 secs.



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# SPECIFICATION FOR APPROVAL

REF: [查询"SB13056R8YL"供应商](#)

PAGE: 2

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|               |                    | ABC'S ITEM NO. |                  |

## V . ELECTRICAL CHARACTERISTICS :

| DWG No.          | L<br>(uH)  | Q<br>ref. | Test Freq. |            | SRF<br>( MHz )<br>typ. | RDC<br>( mΩ )<br>max. | Irms<br>( A ) | Isat<br>( A ) |
|------------------|------------|-----------|------------|------------|------------------------|-----------------------|---------------|---------------|
|                  |            |           | L<br>(Hz)  | Q<br>(MHz) |                        |                       |               |               |
| SB13052R5YL□-□□□ | 2.5±25%    | 20        | 100K/10mV  | 7.96       | 61.0                   | 14                    | 7.20          | 8.00          |
| SB13053R5YL□-□□□ | 3.5±25%    | 18        | 100K/10mV  | 7.96       | 43.0                   | 16                    | 6.00          | 7.00          |
| SB13054R6YL□-□□□ | 4.6±25%    | 20        | 100K/10mV  | 7.96       | 35.0                   | 18                    | 5.20          | 6.00          |
| SB13056R8YL□-□□□ | 6.8±25%    | 18        | 100K/10mV  | 7.96       | 32.0                   | 24                    | 4.30          | 5.20          |
| SB1305100ML□-□□□ | 10.0±20%   | 25        | 100K/10mV  | 2.52       | 27.0                   | 37                    | 3.60          | 4.40          |
| SB1305150ML□-□□□ | 15.0±20%   | 25        | 100K/10mV  | 2.52       | 24.0                   | 46                    | 3.30          | 3.70          |
| SB1305220ML□-□□□ | 22.0±20%   | 26        | 100K/10mV  | 2.52       | 20.0                   | 62                    | 2.90          | 3.00          |
| SB1305330ML□-□□□ | 33.0±20%   | 22        | 100K/10mV  | 2.52       | 16.0                   | 85                    | 2.50          | 2.60          |
| SB1305470ML□-□□□ | 47.0±20%   | 20        | 100K/10mV  | 2.52       | 13.0                   | 130                   | 1.90          | 2.00          |
| SB1305680ML□-□□□ | 68.0±20%   | 20        | 100K/10mV  | 2.52       | 11.0                   | 165                   | 1.65          | 1.80          |
| SB1305101KL□-□□□ | 100.0±10%  | 18        | 100K/10mV  | 0.796      | 11.0                   | 255                   | 1.40          | 1.40          |
| SB1305151KL□-□□□ | 150.0±10%  | 15        | 100K/10mV  | 0.796      | 8.0                    | 380                   | 1.20          | 1.15          |
| SB1305221KL□-□□□ | 220.0±10%  | 15        | 100K/10mV  | 0.796      | 7.0                    | 500                   | 1.00          | 0.95          |
| SB1305331KL□-□□□ | 330.0±10%  | 10        | 100K/10mV  | 0.796      | 6.0                    | 700                   | 0.85          | 0.80          |
| SB1305471KL□-□□□ | 470.0±10%  | 10        | 100K/10mV  | 0.796      | 4.0                    | 1150                  | 0.67          | 0.70          |
| SB1305681KL□-□□□ | 680.0±10%  | 10        | 100K/10mV  | 0.796      | 3.5                    | 1400                  | 0.60          | 0.58          |
| SB1305102KL□-□□□ | 1000.0±10% | 32        | 100K/10mV  | 0.252      | 2.7                    | 2350                  | 0.46          | 0.47          |

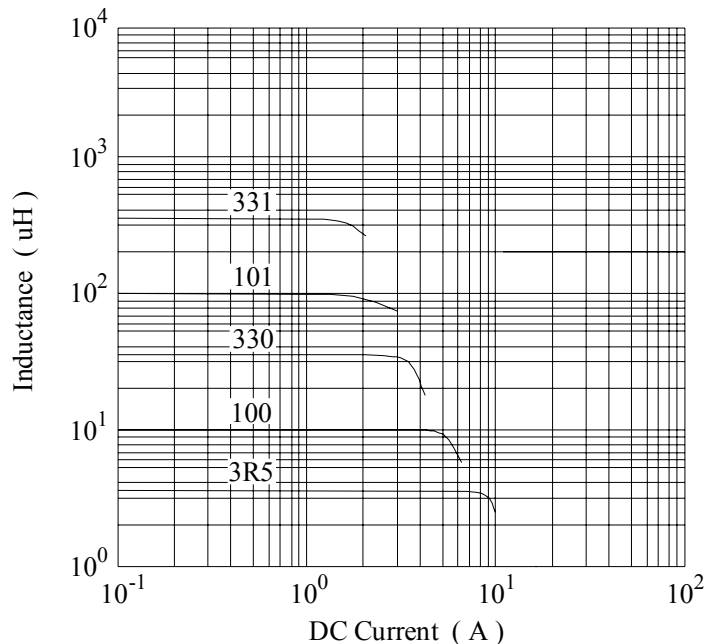
1). □ : Packaging Information...  $\square$  Bulk  $\square$  Taping Reel

2). "- □□□ ":Reference code

3). Irms base on temp. rise 40°C max.

4). Isat base on  $\Delta L/L0A=25\%$  typ.

@ Inductance VS. DC Superposition Characteristics



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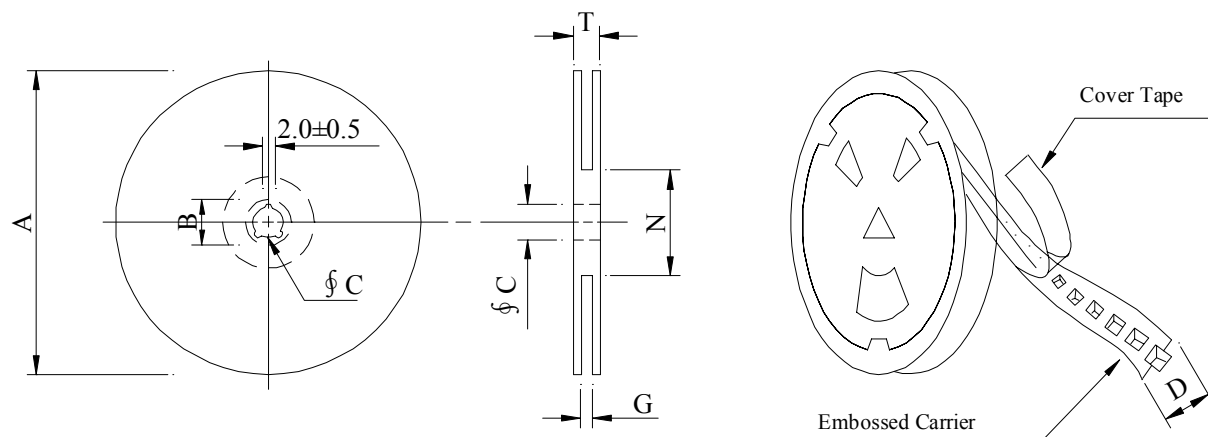
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PAGE: 3

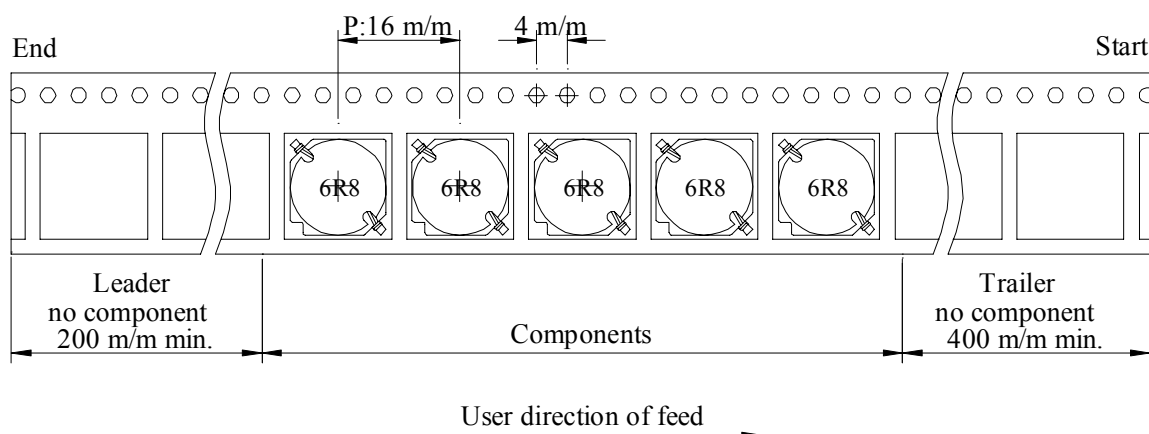
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|---------------|--------------------|----------------|------------------|
| PROD.<br>NAME | SMD POWER INDUCTOR | ABC'S DWG NO.  | SB1305□□□□L□-□□□ |
|               |                    | ABC'S ITEM NO. |                  |

## VI . PACKAGING INFORMATION :

### ( 1 ) Configuration



※Carrier Tape Width : D



### ( 2 ) Dimensions

Unit:m/m

| Style   | A   | B      | C  | D  | G                | N                | T    |
|---------|-----|--------|----|----|------------------|------------------|------|
| 13 - 24 | 330 | 21±0.8 | 13 | 24 | 26 <sup>+0</sup> | 50 <sup>-0</sup> | 30.4 |

### ( 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)    |
| SB1305 | 600          | 1,430     | 13 - 24 | 2,400          | 6.8       | 40 x 40 x 24 |

AE-001A



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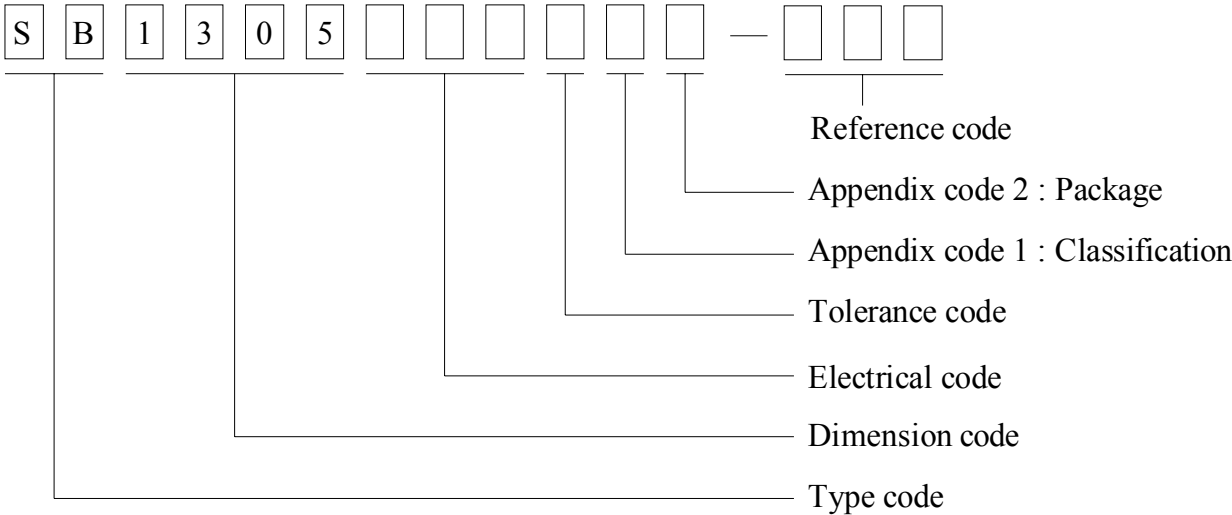
# SPECIFICATION FOR APPROVAL

REF: [查询"SB13056R8YL"供应商](#)

PAGE: 4

|               |                    |                |                  |
|---------------|--------------------|----------------|------------------|
| PROD.<br>NAME | SMD POWER INDUCTOR | ABC'S DWG NO.  | SB1305□□□□L□-□□□ |
|               |                    | ABC'S ITEM NO. |                  |

## VII . 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

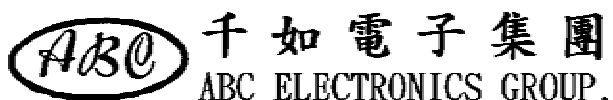
| Code | Inner package          | Inner package Q'TY | Remark |
|------|------------------------|--------------------|--------|
| A    | T.B.D.                 | T.B.D.             |        |
| B    | T / R ( Reel package ) | 600 pcs            |        |

查询"SB13056R8YL"供应商

PAGE: 5

## VIII . RELIABILITY TEST :

AE-001A



SPECIFICATION FOR APPROVAL

REF: 查询"SB13056R8YL"供应商

PAGE: 6

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|-------|--------------------|----------------|------------------|
| PROD. | SMD POWER INDUCTOR | ABC'S DWG NO.  | SB1305□□□□L□-□□□ |
| NAME  |                    | ABC'S ITEM NO. |                  |

IX . UL CARD :

OBMW2September 8, 2000

Magnet Wire-Component

JUNG SHING WIRE CO LTD  
231 CHUNG CHENG RD, SEC 3 JEN-TEH HSIANG, TAINAN  
HSIEN TAIWAN

E174837

| 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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Page 1 of 2

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dedicated to public safety and  
committed to quality service

| 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 magned 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.

287806002

Page 2 of 2

OBMW2E174837  
September 8, 2000

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SPECIFICATION FOR APPROVAL

查询"SB13056R8YL"供应商  
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| PROD. | SMD POWER INDUCTOR |  | ABC'S DWG NO.  |  | SB1305□□□□L□-□□□ |  |  |  |  |  |  |
| NAME  |                    |  | ABC'S ITEM NO. |  |                  |  |  |  |  |  |  |
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