

# SPECIFICATION FOR APPROVAL

REF : 20080714-B

PAGE: 1

|               |                 |                |                  |
|---------------|-----------------|----------------|------------------|
| PROD.<br>NAME | RADIAL INDUCTOR | ABC'S DWG NO.  | RB0812□□□□L□-□□□ |
|               |                 | ABC'S ITEM NO. |                  |

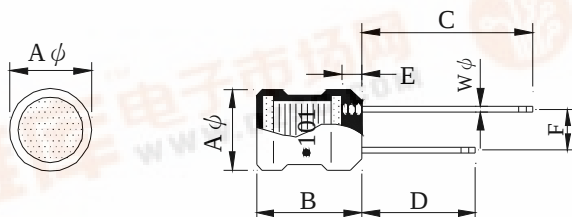
## I . CONFIGURATION & DIMENSIONS :

Marking :

" ● " : Start

● 101----100 uH (Inductance code)

|    |            |     |
|----|------------|-----|
| A  | : 6.7±0.5  | m/m |
| B  | : 10.0±1.0 | m/m |
| C  | : 25.0±5   | m/m |
| D  | : 18.0±5   | m/m |
| E  | : 2.5 max. | m/m |
| F  | : 3.0±0.5  | m/m |
| Wφ | : 0.65     | m/m |

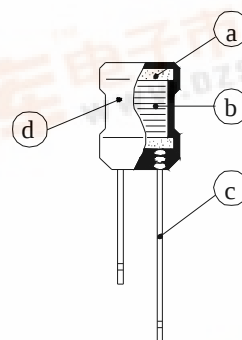


## II . SCHEMATIC DIAGRAM :



## III . MATERIALS :

- a . Core : Ferrite DR core
- b . Wire : Eemelled copper wire (Class F)
- c . Lead : Sn/Ag/Cu
- d . Tube : Sheinkable tube 125℃ , 600V
- e . Remark : Products comply with RoHS' requirements



## IV . GENERAL SPECIFICATION :

- a . Temp. rise : 20℃ max. at rated current.
- b . Storage temp. : -25℃ ---- +85℃
- c . Operating temp. : -20℃ ---- +80℃

AR-001A

ABC 千如電子集團  
ABC ELECTRONICS GROUP.



# SPECIFICATION FOR APPROVAL

REF : 20080714-B

PAGE: 2

|       |                 |                |                  |
|-------|-----------------|----------------|------------------|
| PROD. | RADIAL INDUCTOR | ABC'S DWG NO.  | RB0812□□□□L□-□□□ |
| NAME  |                 | ABC'S ITEM NO. |                  |

## V . ELECTRICAL CHARACTERISTICS :

| DWG No.          | Inductance<br>( $\mu$ H ) | Q<br>min. | Test Freq. ( MHz ) |   | SRF<br>( MHz )<br>min. | RDC<br>( $\Omega$ )<br>max. | IDC<br>( mA )<br>max. |
|------------------|---------------------------|-----------|--------------------|---|------------------------|-----------------------------|-----------------------|
|                  |                           |           | L                  | Q |                        |                             |                       |
| RB0812470KL□-□□□ | 47 $\pm$ 10%              | 30        | 2.52               |   | 6.00                   | 0.40                        | 450                   |
| RB0812560KL□-□□□ | 56 $\pm$ 10%              | 30        | 2.52               |   | 5.50                   | 0.45                        | 400                   |
| RB0812680KL□-□□□ | 68 $\pm$ 10%              | 30        | 2.52               |   | 5.00                   | 0.50                        | 360                   |
| RB0812820KL□-□□□ | 82 $\pm$ 10%              | 30        | 2.52               |   | 4.50                   | 0.50                        | 340                   |
| RB0812101KL□-□□□ | 100 $\pm$ 10%             | 45        | 0.796              |   | 4.20                   | 0.60                        | 320                   |
| RB0812121KL□-□□□ | 120 $\pm$ 10%             | 45        | 0.796              |   | 3.60                   | 0.70                        | 300                   |
| RB0812151KL□-□□□ | 150 $\pm$ 10%             | 45        | 0.796              |   | 3.40                   | 0.90                        | 280                   |
| RB0812181KL□-□□□ | 180 $\pm$ 10%             | 45        | 0.796              |   | 3.20                   | 1.00                        | 260                   |
| RB0812221KL□-□□□ | 220 $\pm$ 10%             | 45        | 0.796              |   | 3.00                   | 1.20                        | 240                   |
| RB0812271KL□-□□□ | 270 $\pm$ 10%             | 45        | 0.796              |   | 2.80                   | 1.40                        | 220                   |
| RB0812331KL□-□□□ | 330 $\pm$ 10%             | 45        | 0.796              |   | 2.50                   | 1.60                        | 200                   |
| RB0812391KL□-□□□ | 390 $\pm$ 10%             | 45        | 0.796              |   | 2.30                   | 1.80                        | 180                   |
| RB0812471KL□-□□□ | 470 $\pm$ 10%             | 45        | 0.796              |   | 2.20                   | 2.00                        | 160                   |
| RB0812561KL□-□□□ | 560 $\pm$ 10%             | 45        | 0.796              |   | 2.00                   | 2.50                        | 150                   |
| RB0812681KL□-□□□ | 680 $\pm$ 10%             | 45        | 0.796              |   | 1.70                   | 2.90                        | 140                   |
| RB0812821KL□-□□□ | 820 $\pm$ 10%             | 45        | 0.796              |   | 1.50                   | 3.10                        | 130                   |
| RB0812102KL□-□□□ | 1000 $\pm$ 10%            | 45        | 0.252              |   | 1.40                   | 3.90                        | 120                   |
| RB0812122KL□-□□□ | 1200 $\pm$ 10%            | 60        | 0.252              |   | 1.10                   | 4.40                        | 110                   |
| RB0812152KL□-□□□ | 1500 $\pm$ 10%            | 60        | 0.252              |   | 0.90                   | 6.00                        | 100                   |
| RB0812182KL□-□□□ | 1800 $\pm$ 10%            | 60        | 0.252              |   | 0.80                   | 7.00                        | 90                    |
| RB0812222KL□-□□□ | 2200 $\pm$ 10%            | 60        | 0.252              |   | 0.75                   | 8.00                        | 80                    |
| RB0812272KL□-□□□ | 2700 $\pm$ 10%            | 60        | 0.252              |   | 0.70                   | 9.00                        | 70                    |
| RB0812332KL□-□□□ | 3300 $\pm$ 10%            | 60        | 0.252              |   | 0.60                   | 12.00                       | 60                    |
| RB0812392KL□-□□□ | 3900 $\pm$ 10%            | 60        | 0.252              |   | 0.55                   | 14.00                       | 55                    |
| RB0812472KL□-□□□ | 4700 $\pm$ 10%            | 60        | 0.252              |   | 0.50                   | 16.00                       | 50                    |
| RB0812562KL□-□□□ | 5600 $\pm$ 10%            | 60        | 0.252              |   | 0.48                   | 18.00                       | 45                    |
| RB0812682KL□-□□□ | 6800 $\pm$ 10%            | 60        | 0.252              |   | 0.44                   | 24.00                       | 40                    |
| RB0812822KL□-□□□ | 8200 $\pm$ 10%            | 60        | 0.252              |   | 0.40                   | 30.00                       | 36                    |
| RB0812103KL□-□□□ | 10000 $\pm$ 10%           | 60        | 0.0796             |   | 0.36                   | 39.00                       | 34                    |
| RB0812123KL□-□□□ | 12000 $\pm$ 10%           | 60        | 0.0796             |   | 0.32                   | 46.00                       | 32                    |
| RB0812153KL□-□□□ | 15000 $\pm$ 10%           | 60        | 0.0796             |   | 0.30                   | 54.00                       | 30                    |
| RB0812183KL□-□□□ | 18000 $\pm$ 10%           | 60        | 0.0796             |   | 0.28                   | 76.00                       | 27                    |
| RB0812223KL□-□□□ | 22000 $\pm$ 10%           | 60        | 0.0796             |   | 0.24                   | 92.00                       | 25                    |
| RB0812273KL□-□□□ | 27000 $\pm$ 10%           | 60        | 0.0796             |   | 0.20                   | 102.00                      | 22                    |
| RB0812333KL□-□□□ | 33000 $\pm$ 10%           | 60        | 0.0796             |   | 0.16                   | 140.00                      | 20                    |
| RB0812393KL□-□□□ | 39000 $\pm$ 10%           | 60        | 0.0796             |   | 0.13                   | 150.00                      | 18                    |
| RB0812473KL□-□□□ | 47000 $\pm$ 10%           | 60        | 0.0796             |   | 0.10                   | 162.00                      | 16                    |

1). □ : Packafing information... [A] Bulk

2). "-□□□":Reference code

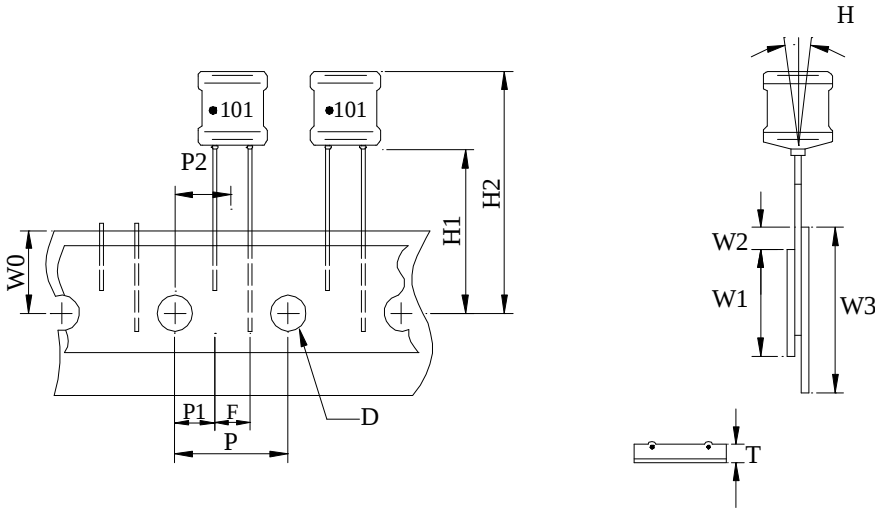
# SPECIFICATION FOR APPROVAL

REF : 20080714-B

PAGE: 3

|               |                 |                |                  |
|---------------|-----------------|----------------|------------------|
| PROD.<br>NAME | RADIAL INDUCTOR | ABC'S DWG NO.  | RB0812□□□□L□-□□□ |
|               |                 | ABC'S ITEM NO. |                  |

VI . TAPED PACKAGE DIMENSIONS :



※ 500 PCS / REEL

| ITEM                                  | SYMBOL | SPECIFICATION |           |       |           |
|---------------------------------------|--------|---------------|-----------|-------|-----------|
|                                       |        | MILIMETER     |           | INCH  |           |
|                                       |        | SIZE          | TOLERANCE | SIZE  | TOLERANCE |
| TAPE FEED HOLE DIAMETER               | D      | 4.00          | ±0.20     | 0.157 | ±0.008    |
| COMPONENT LEAD PITCH                  | F      | 3.00          | ±0.50     | 0.200 | ±0.020    |
| FRONT-TO-REAR DEFLECTION              | H      | 2.00          | MAX.      | 0.079 | MAX.      |
| FEED HOLE TO BOTTOM OF COMPONENT      | H1     | 18.50         | ±0.80     | 0.728 | ±0.040    |
| FEED HOLE TO OVERALL COMPONENT HEIGHT | H2     | 30.50         | MAX.      | 1.280 | MAX.      |
| FEED HOLE PITCH                       | P      | 12.70         | ±0.30     | 0.500 | ±0.012    |
| LEAD LOCATION                         | P1     | 4.85          | ±0.70     | 0.152 | ±0.028    |
| CENTER OF COMPONENT LOCATION          | P2     | 6.35          | ±1.30     | 0.250 | ±0.051    |
| OVERALL TAPED PACKAGE THICKNESS       | T      | 1.42          | MAX.      | 0.056 | MAX.      |
| FEED HOLE LOCATION                    | W0     | 9.00          | ±0.50     | 0.354 | ±0.020    |
| ADHESIVE TAPE WIDTH                   | W1     | 15.00         | ±0.50     | 0.598 | ±0.020    |
| ADHESIVE TAPE POSITION                | W2     | 4.00          | MAX.      | 0.157 | MAX.      |
| TAPE WIDTH                            | W3     | 18.00         | ±0.50     | 0.709 | ±0.020    |

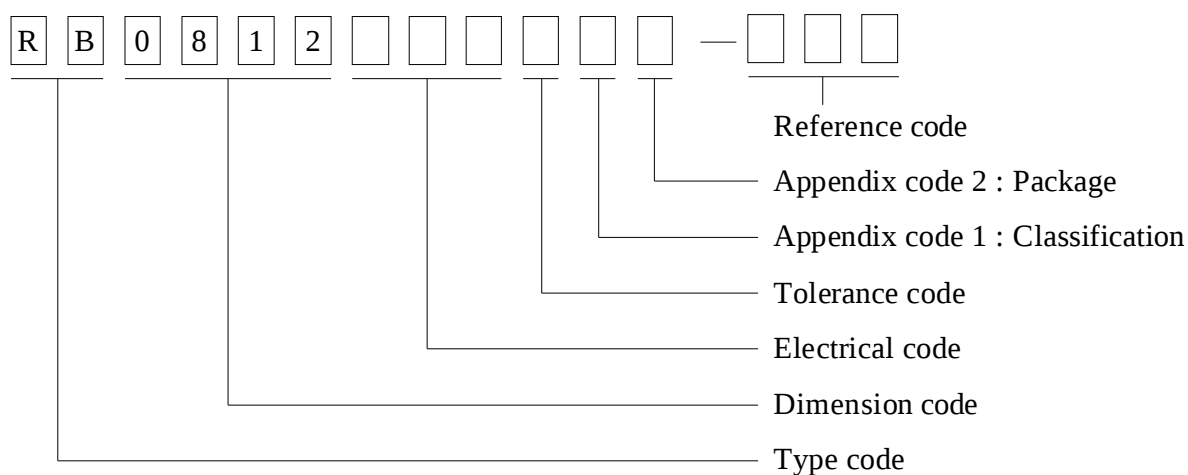
SPECIFICATION FOR APPROVAL

REF : 20080714-B

PAGE: 4

|               |                 |                |                  |
|---------------|-----------------|----------------|------------------|
| PROD.<br>NAME | RADIAL INDUCTOR | ABC'S DWG NO.  | RB0812□□□□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    | Box                    | 400 pcs            |        |
| B    | Bag                    | 200 pcs            |        |
| C    | Tray                   | 160 pcs            |        |
| D    | T.B.D.                 | T.B.D.             |        |
| E    | T / R ( Reel Package ) | 500 pcs            |        |

# SPECIFICATION FOR APPROVAL

REF : 20080714-B

PAGE: 5

|       |                 |                |                  |
|-------|-----------------|----------------|------------------|
| PROD. | RADIAL INDUCTOR | ABC'S DWG NO.  | RB0812□□□□L□-□□□ |
| NAME  |                 | ABC'S ITEM NO. |                  |

## VIII . UL CARD :

OBMW2  
Magnet Wire-Component  
JUNG SHING WIRE CO LTD  
231 CHUNG CHENG RD, SEC 3 JEN-TEH HSIANG, TAINAN  
HSIEN TAIWAN

September 8, 2000  
  
  
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          | Modified       | —         | 180        |
| EILOCKW     | —        | Polyesterimide     | Polyamide          | 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        |

287806002

Page 1 of 2

A not-for-profit organization  
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 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.

287806002

Page 2 of 2

OBMW2/E174837  
September 8, 2000

**This datasheet has been downloaded from:**

**[www.EEworld.com.cn](http://www.EEworld.com.cn)**

**Free Download**

**Daily Updated Database**

**100% Free Datasheet Search Site**

**100% Free IC Replacement Search Site**

**Convenient Electronic Dictionary**

**Fast Search System**

**[www.EEworld.com.cn](http://www.EEworld.com.cn)**