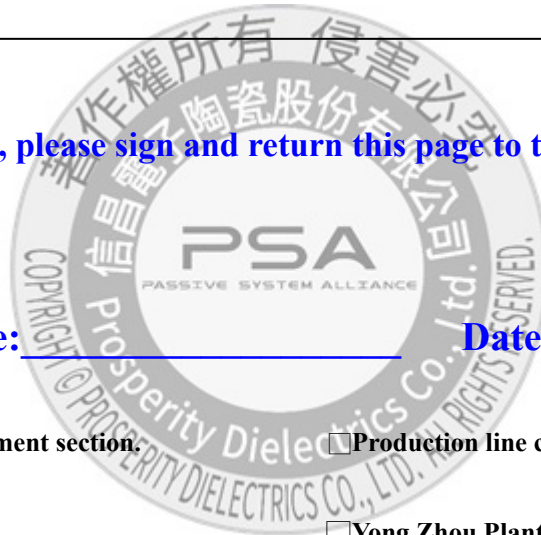


# SPECIFICATION FOR APPROVAL

|                 |                          |
|-----------------|--------------------------|
| CUSTOMER        | _____                    |
| CUST. PART NO.  | _____                    |
| CUST. DOC. REV. | _____                    |
| DESCRIPTION     | SMD CHIP BEAD(RoHS+H.F.) |
| SAMPLE LOT NO.  | _____                    |
| PART NO.        | FB160808AXXX-LRH         |
| DOC. REV.       | ORIG                     |
| DATE            | _____                    |

Once you approve this part, please sign and return this page to the following marked location.



Customer Signature: \_\_\_\_\_ Date: \_\_\_\_\_

This part currently development section.  Production line can produce this series of products.

Sales Office-Headquarter  
No. 566-1, Kao-Shi Rd., Yangmei, Taoyuan 32668,  
Taiwan  
TEL: +886-3-475-3355  
FAX: +886-3-485-4959

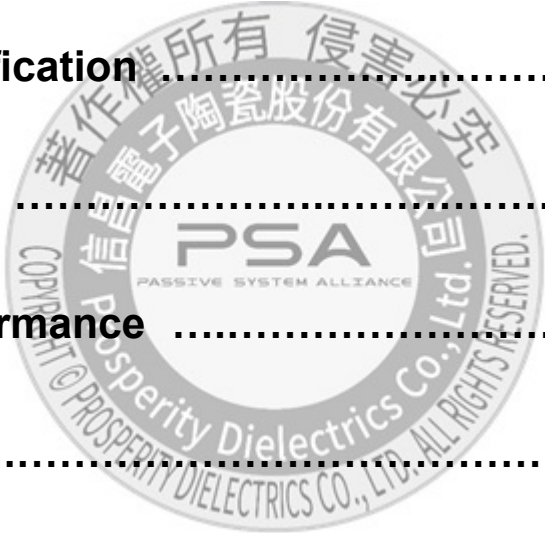
Yong Zhou Plant  
Tao-Yuan Rd., Fenghuang Park, Lengshuitan  
District, Yongzhou, Hunan 425000, P.R.C.  
TEL: +86-746-8610-180  
FAX: +86-746-8610-181

Sales Office-Dong Guan,China  
No.638,Mei Jing West Road Xiniupo Administrative  
Zone Dalang Town,Dong Guan City,GuangDong  
Province,China.  
TEL: +86-769-8555-0979  
FAX: +86-769-8555-0972

| TESTED BY | CHECKED BY | APPROVED BY |
|-----------|------------|-------------|
|           |            |             |

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# SPECIFICATION FOR APPROVAL

|   |                                     |                     |               |                      |
|---|-------------------------------------|---------------------|---------------|----------------------|
| CUSTOMER  | CUSTOMER P/N                        | REV.<br>-           | SPL. LOT NO.  |                      |
| PART NAME<br><b>SMD CHIP BEAD<br/>(RoHS+H.F.)</b> | PART NO.<br><b>FB160808AXXX-LRH</b> | REV.<br><b>ORIG</b> | DATE OF ISSUE | Q'TY<br><b>0 PCS</b> |

## ENGINEERING CHANGE NOTICE - RECORD

| REVISION NO. | REVISION DESCRIPTION | AUTHOR           | DATE | REMARK |
|--------------|----------------------|------------------|------|--------|
| <b>ORIG</b>  |                      | <i>Bruce Hsu</i> |      |        |

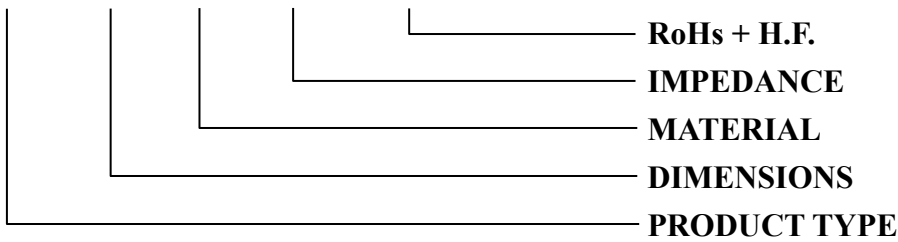


# SPECIFICATION FOR APPROVAL

※This is a RoHS and REACH compliant product whose related documents are available on request.  
 ※Graphic is only for dimensionally application.

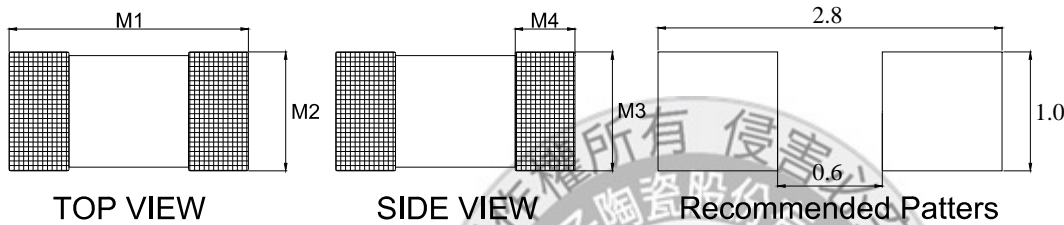
## 1. PART NUMBER IDENTIFICATION

**FB 160808 A □□□ - LRH**



## 2. MECHANICAL DIMENSION

UNIT: mm



|    | DIM. | TOL.  |
|----|------|-------|
| M1 | 1.60 | ±0.15 |
| M2 | 0.80 | ±0.15 |
| M3 | 0.80 | ±0.15 |
| M4 | 0.30 | ±0.20 |

## 3. ELECTRICAL SPECIFICATION

| Part number      | Impedance<br>(Ω)<br>±25% | Test Frequency<br>(MHz) | DC Resistance<br>(Ω)<br>MAX. | Rated Current<br>(mA) |
|------------------|--------------------------|-------------------------|------------------------------|-----------------------|
| FB160808A100-LRH | 10                       | 100                     | 0.05                         | 600                   |
| FB160808A300-LRH | 30                       | 100                     | 0.08                         | 600                   |
| FB160808A600-LRH | 60                       | 100                     | 0.10                         | 600                   |
| FB160808A800-LRH | 80                       | 100                     | 0.10                         | 600                   |
| FB160808A121-LRH | 120                      | 100                     | 0.15                         | 600                   |
| FB160808A181-LRH | 180                      | 100                     | 0.30                         | 300                   |
| FB160808A221-LRH | 220                      | 100                     | 0.30                         | 300                   |
| FB160808A301-LRH | 300                      | 100                     | 0.35                         | 300                   |
| FB160808A471-LRH | 470                      | 100                     | 0.40                         | 300                   |
| FB160808A601-LRH | 600                      | 100                     | 0.45                         | 200                   |
| FB160808A102-LRH | 1000                     | 100                     | 0.60                         | 100                   |
| FB160808A182-LRH | 1800                     | 100                     | 0.70                         | 100                   |
| FB160808A252-LRH | 2500                     | 100                     | 0.70                         | 100                   |

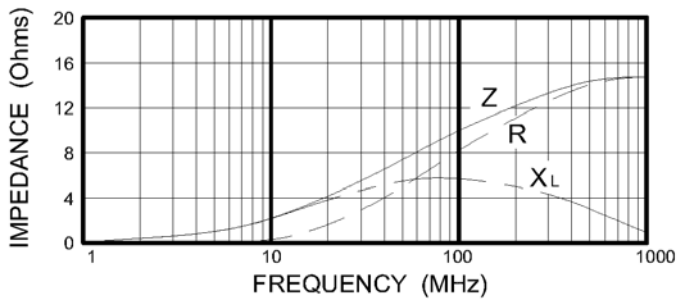
TEST INSTRUMENT: HP4291B、HP4338A/B、HP6632B、Agilent 8720ES

TEST LEVEL: 250 mV

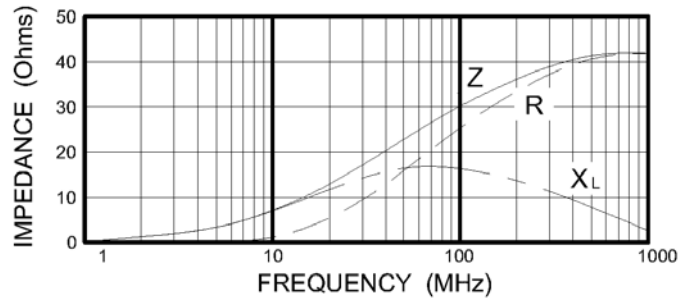
# SPECIFICATION FOR APPROVAL

## 4. ELECTRICAL CURVE

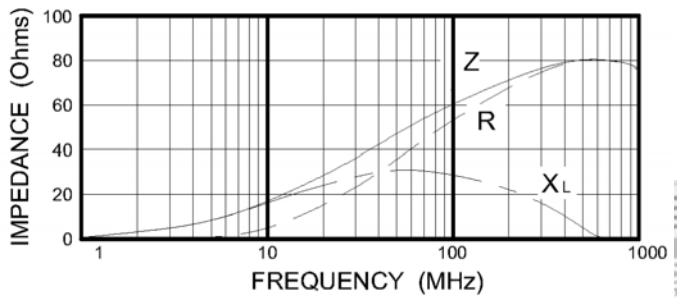
**FB160808A100-LRH**



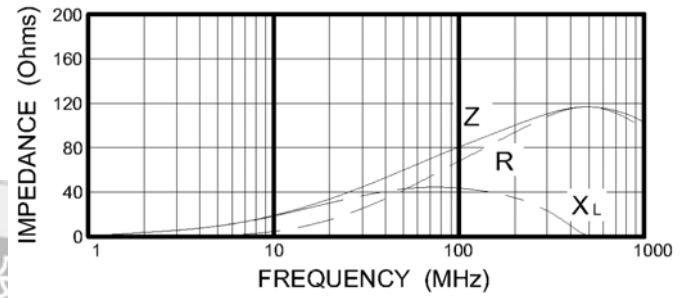
**FB160808A300-LRH**



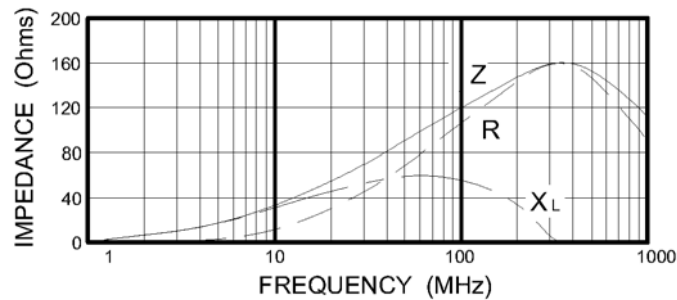
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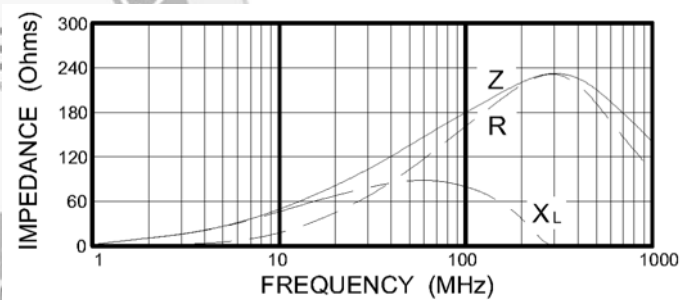
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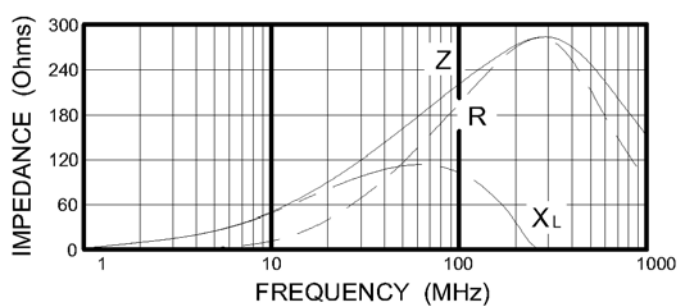
**FB160808A121-LRH**



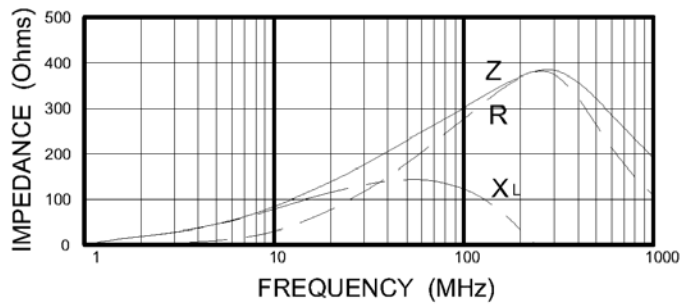
**FB160808A181-LRH**



**FB160808A221-LRH**

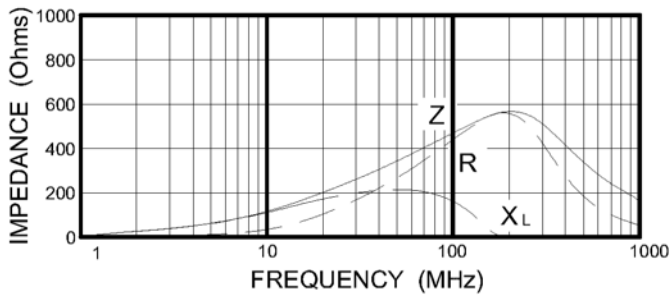


**FB160808A301-LRH**

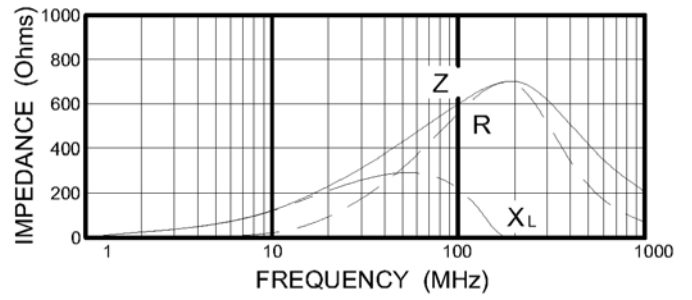


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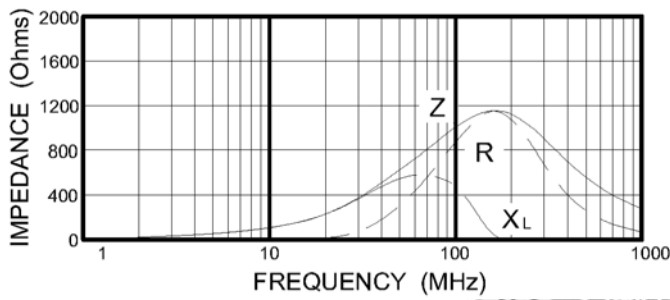
**FB160808A471-LRH**



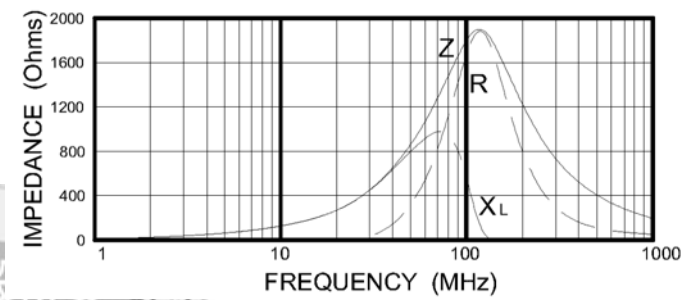
**FB160808A601-LRH**



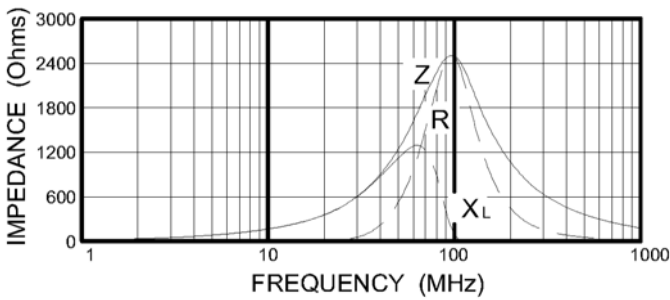
**FB160808A102-LRH**



**FB160808A182-LRH**



**FB160808A252-LRH**



# SPECIFICATION FOR APPROVAL

## 5. RELIABILITY PERFORMANCE

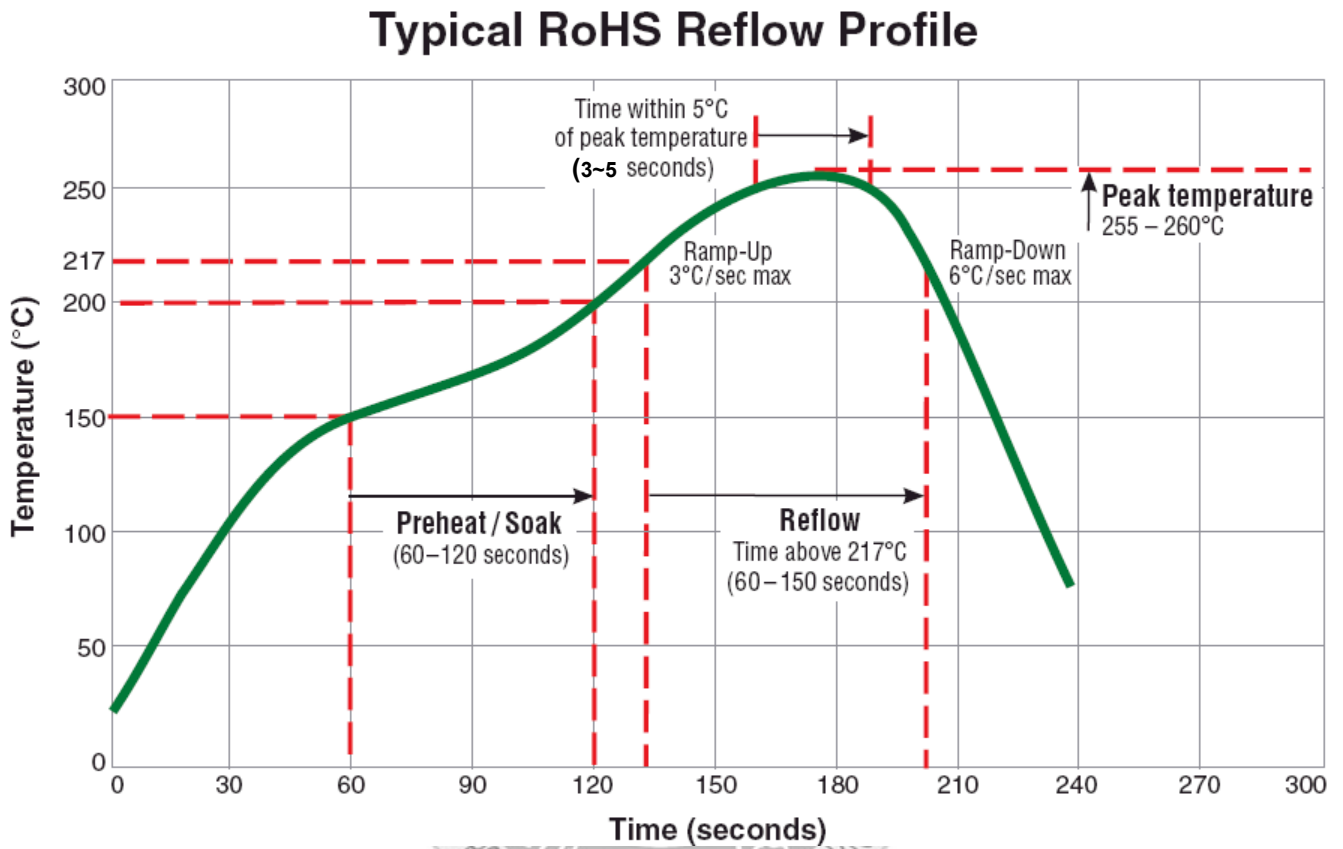
| Test Item                 | Test Condition  | Criteria   |
|---------------------------|---|--|
| Temperature Cycle         | a. Temperature : -40 ~ +85°C<br>b. Cycle : 100 cycles<br>c. Dwell time : 30 minutes<br>d. Measurement : at ambient temperature 24 hrs after test completion   | a. No mechanical damage<br>b. Impedance value should be within ±20% of the initial value   |
| Operational Life          | a. Temperature : 125°C±5°C<br>b. Test time : 1000 hrs<br>c. Apply current : full rated current<br>d. Measurement : at ambient temperature 24 hrs after test completion                              | a. No mechanical damage<br>b. Impedance value should be within ±20% of the initial value   |
| Biased Humidity           | a. Temperature : 40°C±2°C<br>b. Humidity : 90 ~ 95 % RH<br>c. Test time : 1000 hrs<br>d. Apply current : full rated current<br>e. Measurement : at ambient temperature 24 hrs after test completion | a. No mechanical damage<br>b. Impedance value should be within ±20% of the initial value   |
| Resistance to Solder Heat | a. Solder temperature : 260±5°C<br>b. Flux : Rosin<br>c. DIP time : 10±1 sec  | a. More than 95% of terminal electrode should be covered with new solder<br>b. No mechanical damage<br>c. Impedance value should be within ±20% of the initial value |
| Adhesive Test             | a. Reflow temperature : 245°C It shall be Soldered on the substrate applying direction parallel to the substrate<br>b. Apply force(F) : 5 N<br>c. Test time : 10 sec                                | a. No mechanical damage<br>b. Soldering the products on PCB after the pulling test force > 5 N   |
| Steam Aging Test          | a. Temperature : 93°C<br>b. Test time : 4 hrs (MCB1005) Others : 8 hrs<br>c. Solder temperature : 235±5°C<br>d. Flux : Rosin<br>e. DIP time : 5±1 sec   | More than 95% of terminal electrode should be covered with new solder  |
| Rated Current Test        | a. Apply current : full rated current / 5min  | Temperature rise should be less than 25°C  |

**OPERATING TEMPERATURE RANGE : - 55°C ~ +125°C**

**STORAGE CONDITION : LESS THAN 40°C & 70% RH**

# SPECIFICATION FOR APPROVAL

## 6. TYPICAL RoHS REFLOW PROFILE

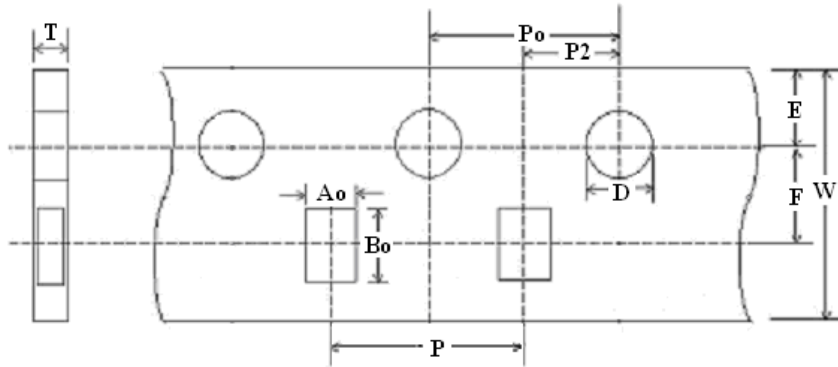




# SPECIFICATION FOR APPROVAL

## 7. PACKING

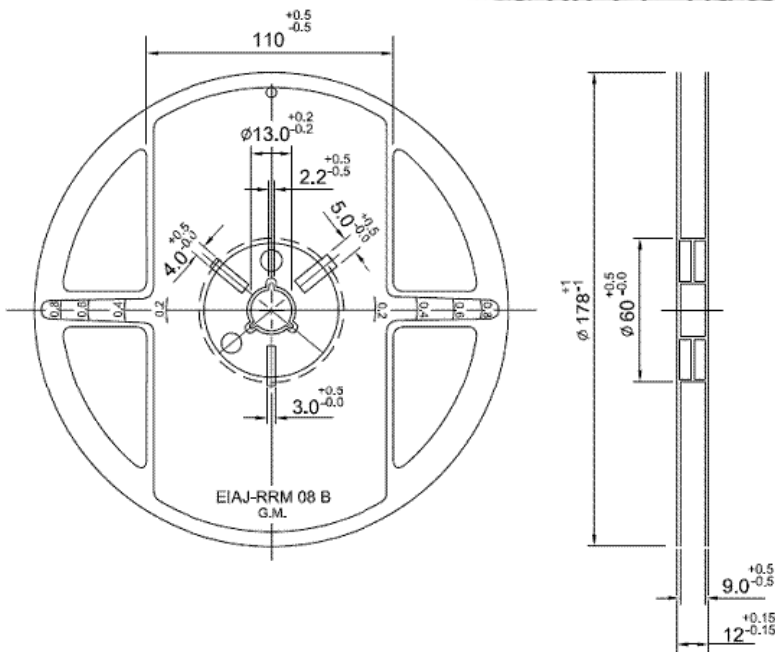
### 7.1 PAPER CARRIER



UNIT : mm

| W         | P         | E         | F         | D         | P <sub>0</sub> | P <sub>2</sub> | A <sub>o</sub> | B <sub>o</sub> | T         |
|-----------|-----------|-----------|-----------|-----------|----------------|----------------|----------------|----------------|-----------|
| 8.00±0.10 | 4.00±0.10 | 1.75±0.10 | 3.50±0.10 | 1.56±0.10 | 4.00±0.10      | 2.00±0.10      | 1.05±0.05      | 1.85±0.05      | 0.95±0.05 |

### 7.2 REEL DIMENSIONS



### 7.3 Packaging Quantity

| Reel      | Inner Box |
|-----------|-----------|
| 4,000 Pcs | 5 Reels   |