

## 5GHz 1608 Band Pass Filter: LBP1608R5000L202

### Applications:

WLAN, 802.11b/g, ISM Band...

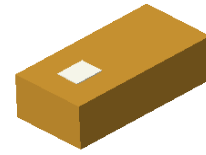
### Features

SMD, high reliability, ultra-Impact...

### Part number

LBP   1608   R   5000   L2   02  
(1)   (2)   (3)   (4)   (5)   (6)

|                  |               |
|------------------|---------------|
| (1) Product code | LTCC-BPF      |
| (2) Size Code    | 1.6x0.8mm     |
| (3) Packing      | Tape and reel |
| (4) Frequency    | 5GHz          |
| (5) Series       | L2            |
| (6) Type         | 02            |

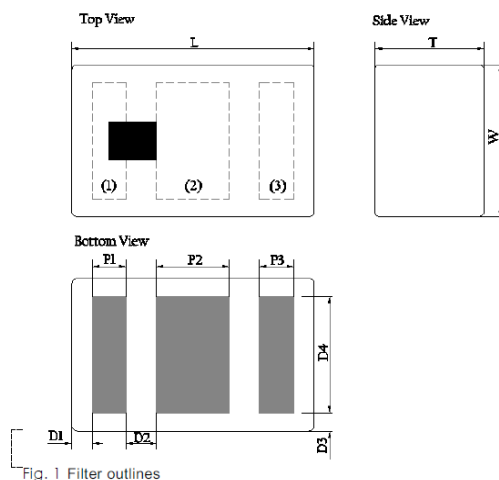


### Electrical Specification

|                       |                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------|
| Pass Band             | 5150~5950MHz                                                                            |
| Impedance             | 50 Ohm                                                                                  |
| Insertion Loss        | 0.6dB max. @ 25°C                                                                       |
| Attenuation           | 35dB min. @ 2400~2500 MHz<br>30dB min. @ 10300~11700 MHz<br>25dB min. @ 15450~17850 MHz |
| VSWR                  | 2.0 max.                                                                                |
| Operating Temperature | -40 ~ +85 °C                                                                            |

The specification is defined on EVB.

### Dimension and Terminal Configuration



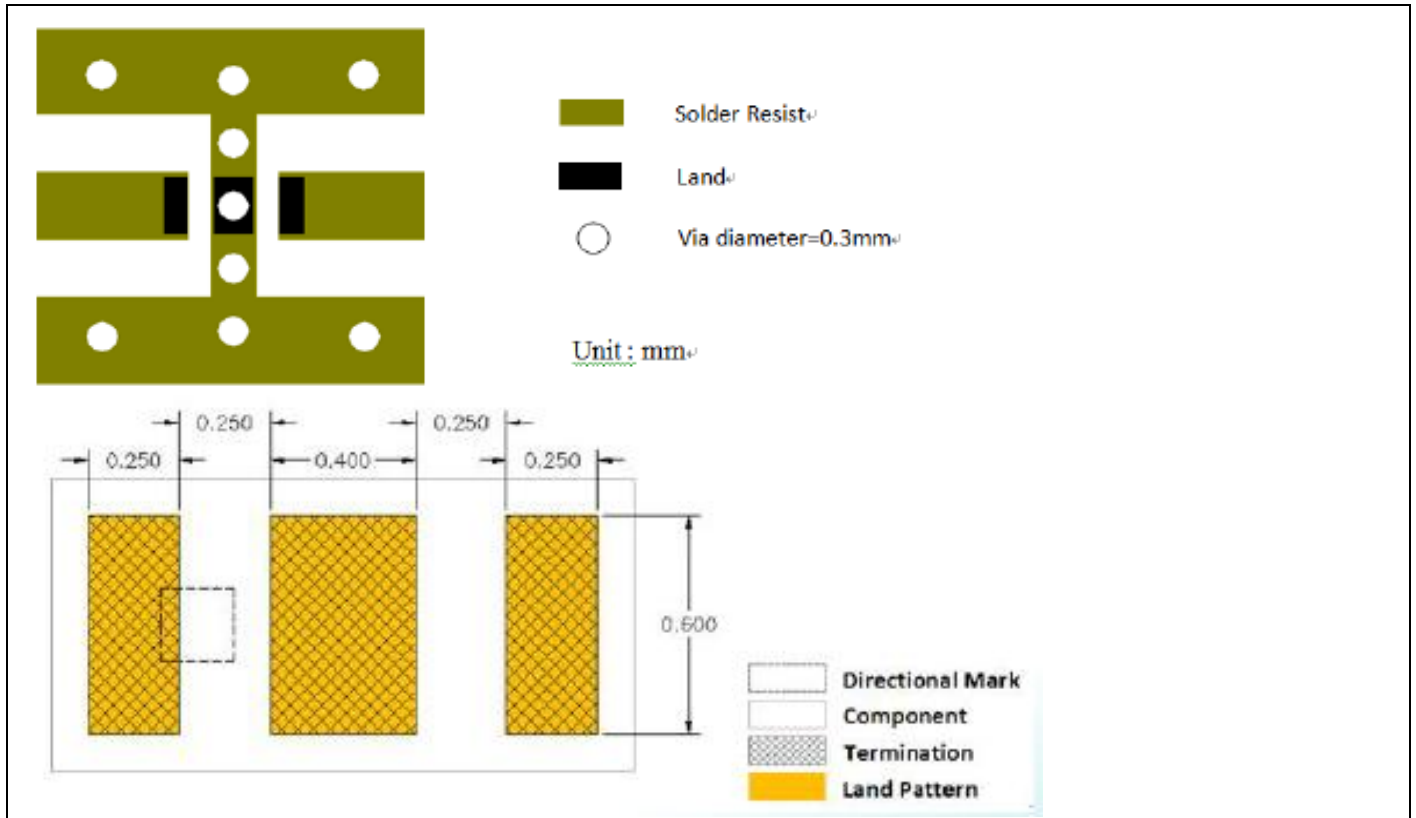
| Dimension (mm) |            |
|----------------|------------|
| L              | 1.60±0.15  |
| W              | 0.80±0.15  |
| T              | 0.60±0.15  |
| P1             | 0.25 ±0.10 |
| P2             | 0.40 ±0.10 |
| P3             | 0.25 ±0.10 |
| D1             | 0.10 ±0.10 |
| D2             | 0.25 ±0.10 |
| D3             | 0.10 ±0.10 |
| D4             | 0.60 ±0.10 |

| No. | Terminal Name |
|-----|---------------|
| P1  | Input         |
| P2  | GND           |
| P3  | Output        |

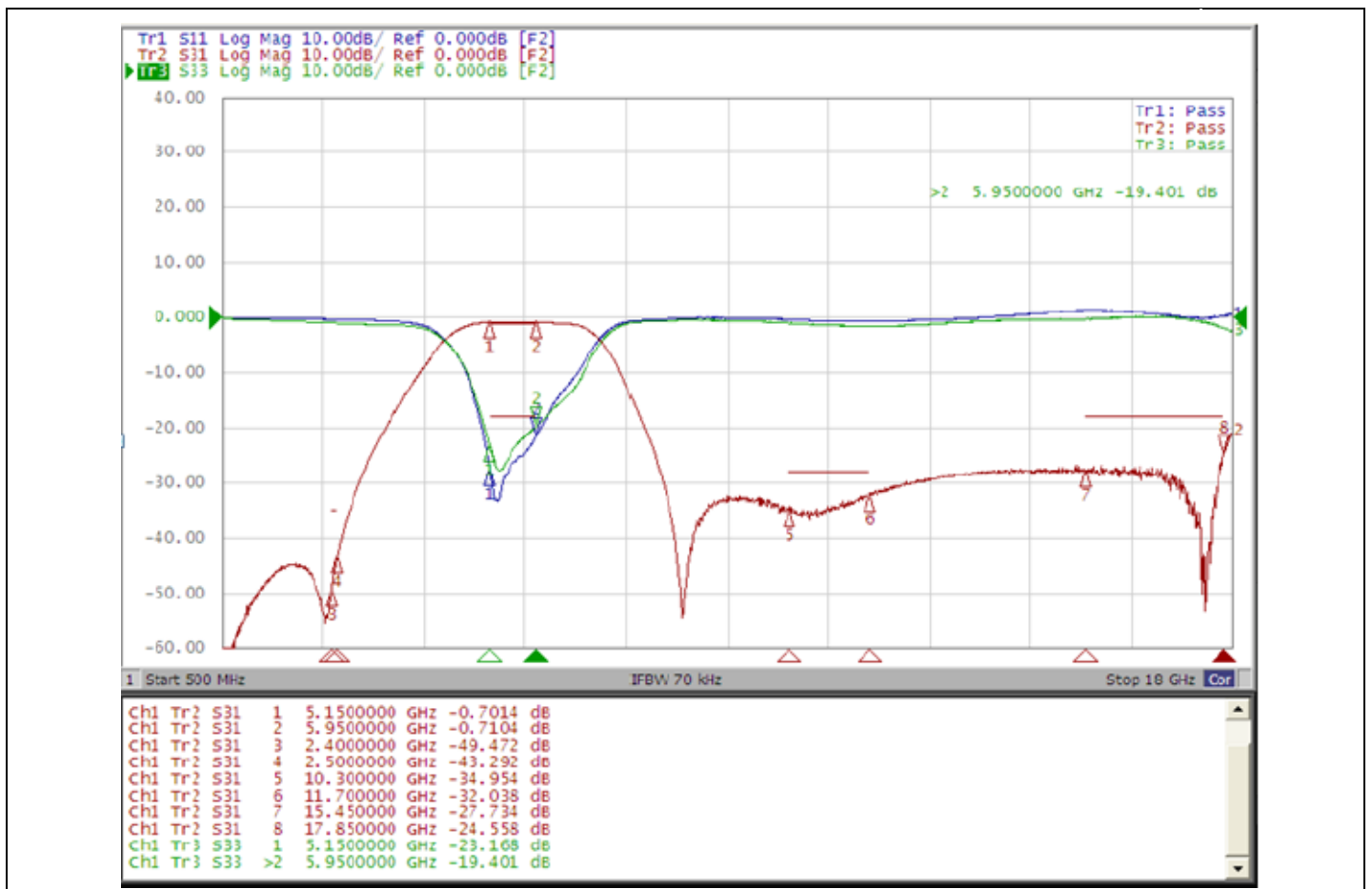
*P.S : Symmetrical,  
No direction*

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### Evaluation Board Reference



### Electrical Characteristics

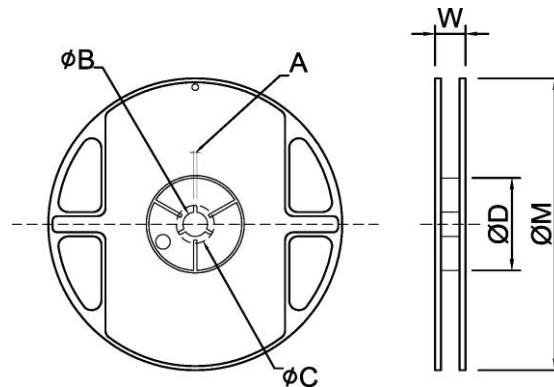


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## Taping Specifications

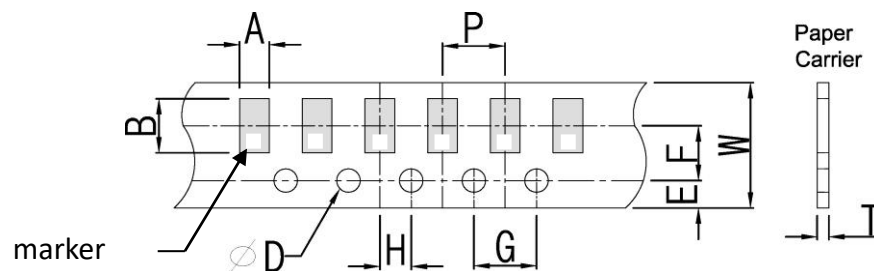
### Reel and Taping Specification

#### Reel Specification



| TYPE | SIZE |         | A             | $\phi B$       | $\phi C$     | $\phi D$     | W              | $\phi M$      |
|------|------|---------|---------------|----------------|--------------|--------------|----------------|---------------|
| 1608 | 7"   | 4K/Reel | $2.0 \pm 0.5$ | $13.5 \pm 1.0$ | $21 \pm 1.0$ | $60 \pm 1.0$ | $11.5 \pm 2.0$ | $178 \pm 2.0$ |

#### Taping Specification

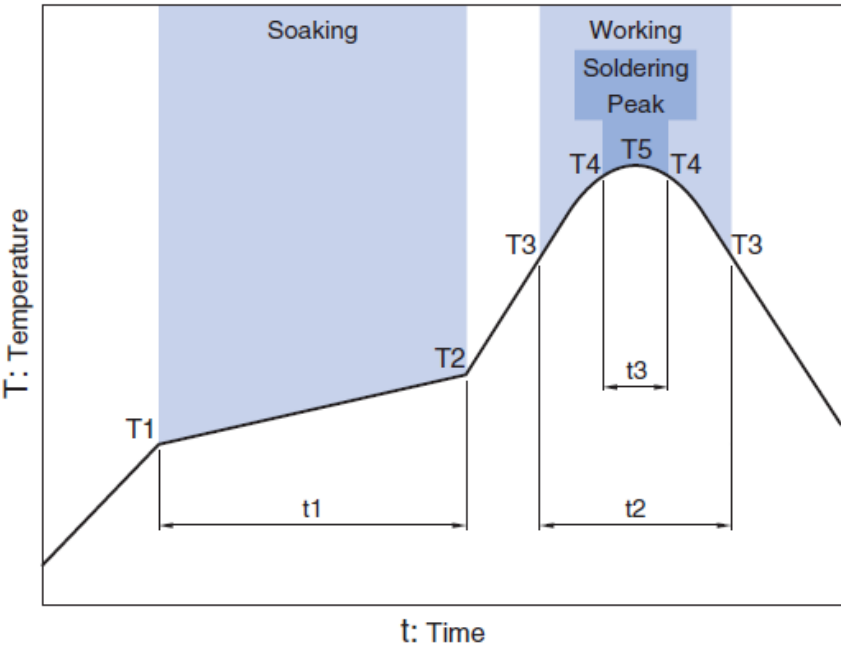


| Packaging  | Type | A               | B               | W              | E               | F              | G              | H              | T               | $\phi D$            | P             |
|------------|------|-----------------|-----------------|----------------|-----------------|----------------|----------------|----------------|-----------------|---------------------|---------------|
| Paper Type | 1608 | $1.40 \pm 0.20$ | $2.20 \pm 0.20$ | $8.0 \pm 0.20$ | $1.75 \pm 0.10$ | $3.0 \pm 0.05$ | $4.0 \pm 0.10$ | $2.0 \pm 0.05$ | $0.75 \pm 0.10$ | $1.50^{+0.10}_{-0}$ | $4.0 \pm 0.1$ |

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Recommended Reflow Profile

Pb free solder



| Soaking |       |              | Working |                 | Soldering    |              | Peak       |
|---------|-------|--------------|---------|-----------------|--------------|--------------|------------|
| Temp.   |       | Time         | Temp.   | Time            | Temp.        | Time         | Temp.      |
| T1      | T2    | t1           | T3      | t2              | T4           | t3           | T5         |
| 150°C   | 180°C | 60 to 120sec | 230°C   | more than 30sec | 247 to 253°C | within 10sec | 260°C Max. |

Revision History

| Version | Date     | Description |
|---------|----------|-------------|
| Ver.01  | Jul.2023 | New issue.  |