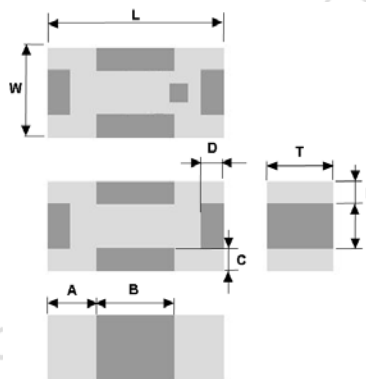


**PRODUCT FEATURES**

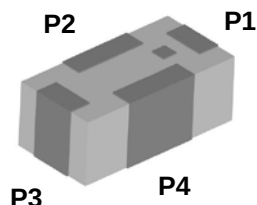
1. Surface mount band pass filter with a small size of 2.0 X 1.2 X 0.8 mm, RoHS compliant.
2. Provide low insertion loss and high rejection rate.
3. Highly stable under temperature and humidity changes.

**RF CHARACTERISTICS**

| P/N BP2500B0805FT           | Specification                                                                                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency range             | 2400 - 2500 MHz                                                                                                                                                          |
| Insertion Loss (max)        | 2.8 dB max.                                                                                                                                                              |
| VSWR                        | 2.0 max                                                                                                                                                                  |
| Impedance                   | 50 $\Omega$                                                                                                                                                              |
| Attenuation (min.)          | 40 dB @ DC-1600 MHz<br>35 dB @ 1710 MHz<br>25 dB @ 1900 MHz<br>12 dB @ 2100 MHz<br>8 dB @ 2170 MHz<br>30 dB @ 3100 MHz<br>40 dB @ 4800-5000 MHz<br>20 dB @ 7200-7500 MHz |
| Operating temperature range | -40°C to +85°C                                                                                                                                                           |

**PHYSICAL DIMENSIONS**

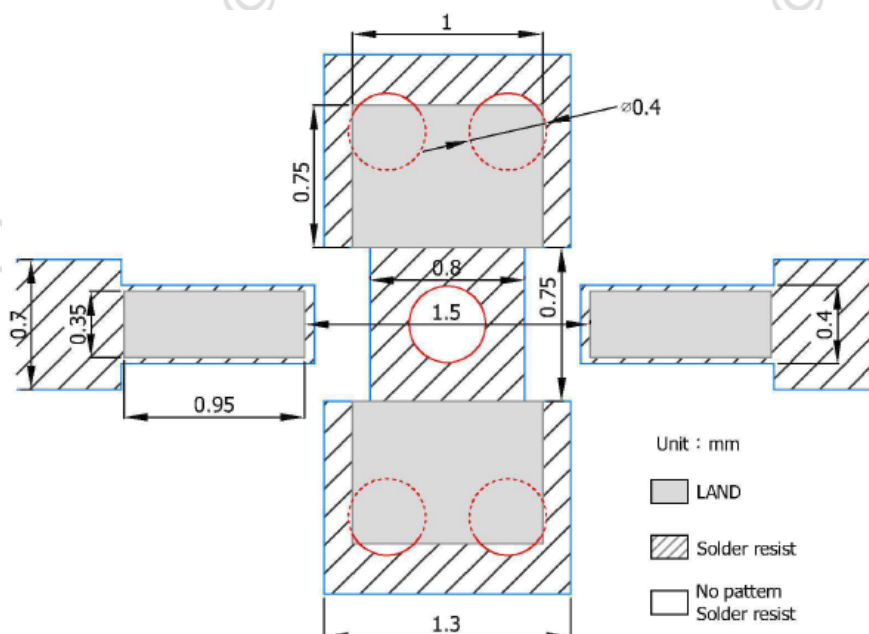
| Symbol | Dimension (mm)   |
|--------|------------------|
| L      | 2.00 $\pm$ 0.15  |
| W      | 1.25 $\pm$ 0.15  |
| T      | 0.80 $\pm$ 0.10  |
| A      | 0.50 $\pm$ 0.15  |
| B      | 1.00 $\pm$ 0.15  |
| C, D   | 0.25 $\pm$ 0.15  |
| E      | 0.475 $\pm$ 0.15 |
| F      | 0.30 $\pm$ 0.15  |

**TERMINAL CONFIGURATION**

| PIN | Definition   |
|-----|--------------|
| P1  | Input/Output |
| P2  | GND          |
| P3  | Output/Input |
| P4  | GND          |



## PCB DESIGN/LAYOUT CONSIDERATION



Note: Design trace width to be 50Ω impedance.

### Typical RF Performance

