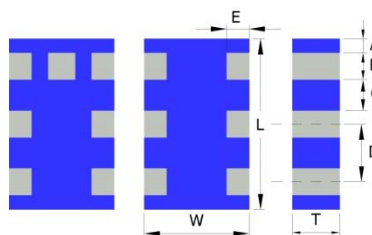


**PRODUCT FEATURES**

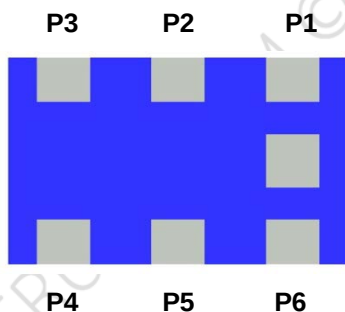
1. Surface mount band pass filter with a small size of 2.0 X 1.25 X 0.6 mm, RoHS compliant.
2. Provide low insertion loss and high rejection rate.
3. Highly stable under temperature and humidity changes.

**RF CHARACTERISTICS**

| P/N BM2450K0805AT           | Specification                                                                    |
|-----------------------------|----------------------------------------------------------------------------------|
| Frequency range             | 2400 - 2500 MHz                                                                  |
| Insertion Loss (max)        | 1.5 dB max at 25°C<br>1.7 dB max -40°C to +85°C                                  |
| Return Loss                 | 9.5 dB Min.                                                                      |
| Impedance (Unbalanced)      | 50 $\Omega$                                                                      |
| Impedance (Balanced)        | Impedance match to T.I.<br>CC253X, CC254X, CC257X,<br>CC853X and CC852X Chipsets |
| Attenuation (min.)          | 12 dB @ 1000 MHz<br>15 dB @ 4800 - 5000 MHz<br>20 dB @ 7200 - 7500 MHz           |
| Operating temperature range | -40°C to +85°C                                                                   |

**PHYSICAL DIMENSIONS**

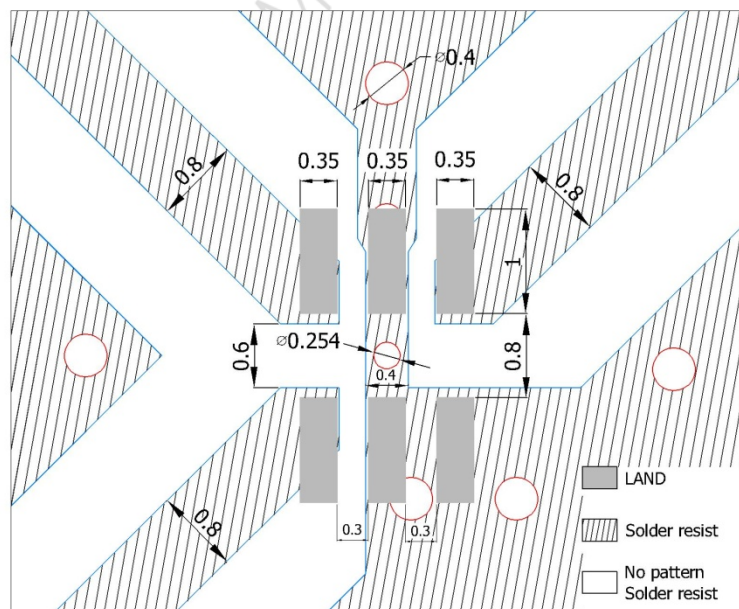
| Symbol | Dimension (mm)  |
|--------|-----------------|
| L      | 2.00 $\pm$ 0.10 |
| W      | 1.25 $\pm$ 0.10 |
| T      | 0.60 $\pm$ 0.10 |
| A      | 0.20 $\pm$ 0.10 |
| B      | 0.30 $\pm$ 0.10 |
| C      | 0.35 $\pm$ 0.10 |
| D      | 0.65 $\pm$ 0.10 |
| E      | 0.25 $\pm$ 0.10 |

**TERMINAL CONFIGURATION**

| PIN | Connection     | PIN | Connection   |
|-----|----------------|-----|--------------|
| P1  | Unbalance Port | P4  | Balance Port |
| P2  | GND            | P5  | GND          |
| P3  | Balance Port   | P6  | GND          |



## PCB DESIGN/LAYOUT CONSIDERATION



### Note:

- Design trace width to be 50Ω impedance.

## Typical RF Performance

