



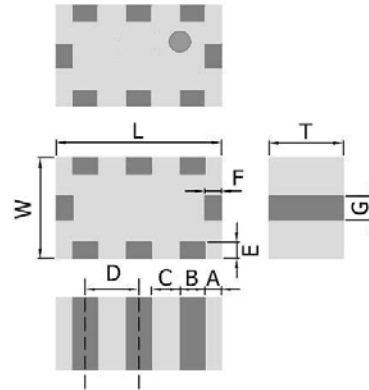
## PRODUCT FEATURES

1. Surface mount balun matched filter with a small size of 2.0 X 1.2 X 0.9 mm, RoHS compliant.
2. Provide high rejection rate and DC bias option.
3. Highly stable under temperature and humidity changes.

## RF CHARACTERISTICS

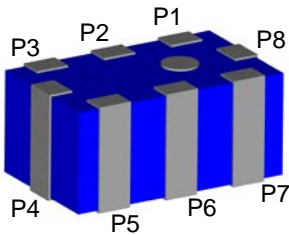
| P/N BM2450E0805ET           | Specification  |
|-----------------------------|--|
| Frequency range             | 2400 - 2500 MHz  |
| Insertion Loss              | 2.8 dB max   |
| VSWR                        | 2.1 max  |
| Impedance (Unbalanced)      | 50 Ω   |
| Impedance ( Balanced )      | Conjugate matched to MT6611 Bluetooth chipset  |
| Phase Difference            | 180°± 10°  |
| Amplitude Difference        | 2.0 dB Max   |
| Attenuation ( min.)         | 35dB @ 880-960 MHz<br>30dB @ 1710-1880 MHz<br>20dB @ 1880-1990 MHz<br>30dB @ 4800-5000 MHz |
| Operating temperature range | -40°C to +85°C   |

## PHYSICAL DIMENSIONS



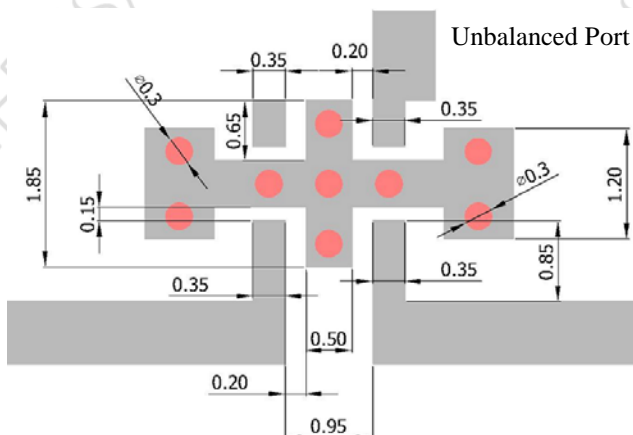
| Symbol | Dimension (mm) |
|--------|----------------|
| L      | 2.00 ± 0.15    |
| W      | 1.25 ± 0.10    |
| T      | 0.90 ± 0.10    |
| A,E,F  | 0.20 ± 0.15    |
| B      | 0.30 ± 0.10    |
| C      | 0.35 ± 0.10    |
| D      | 0.65 ± 0.10    |
| G      | 0.30 ± 0.10    |

## TERMINAL CONFIGURATION



| PIN | Definition      | PIN | Definition    |
|-----|-----------------|-----|---------------|
| P1  | Unbalanced Port | P5  | Balanced Port |
| P2  | DC/GND          | P6  | GND           |
| P3  | NC              | P7  | Balanced Port |
| P4  | GND             | P8  | GND           |

## PCB DESIGN/LAYOUT CONSIDERATION



**Note:**

- Unit in mm
- Design trace width to be 50Ω impedance.



## Typical RF Performance

