

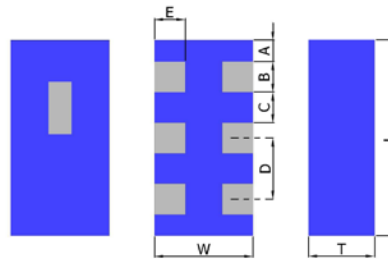
PRODUCT FEATURES

1. Surface mount balun matched filter with a small size of 1.6 X 0.8 X 0.5 mm, RoHS compliant.
2. Provide conjugate match to AR6003 chipset.
3. Highly stable under temperature and humidity changes.

RF CHARACTERISTICS

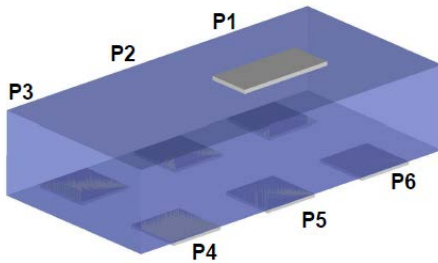
| P/N BM2450L0603AT | Specification |
|-----------------------------|-----------------------------|
| Frequency range | 2400 - 2500 MHz |
| Insertion Loss | 1.2 dB max |
| VSWR | 2.0 max |
| Impedance (Unbalanced) | 50 Ω |
| Impedance (Balanced) | Conjugate to AR6003 chipset |
| Phase Difference | 180°± 10° |
| Amplitude Difference | 2.0 dB Max |
| Operating temperature range | -40°C to +85°C |

PHYSICAL DIMENSIONS



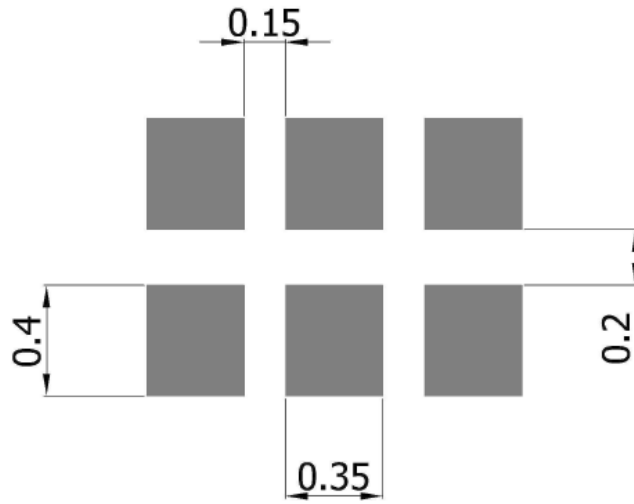
| Symbol | Dimension (mm) |
|--------|----------------|
| L | 1.60 ± 0.15 |
| W | 0.80 ± 0.15 |
| T | 0.50 ± 0.10 |
| A | 0.175 ± 0.10 |
| B | 0.25 ± 0.10 |
| C | 0.25 ± 0.10 |
| D | 0.50 ± 0.10 |
| E | 0.25 ± 0.10 |

TERMINAL CONFIGURATION



| PIN | Connection | PIN | Connection |
|-----|-----------------|-----|---------------|
| 1 | Unbalanced Port | 4 | Balanced Port |
| 2 | DC | 5 | GND or NC |
| 3 | GND | 6 | Balanced Port |

PCB DESIGN/LAYOUT CONSIDERATION



Note:

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

Typical RF Performance

