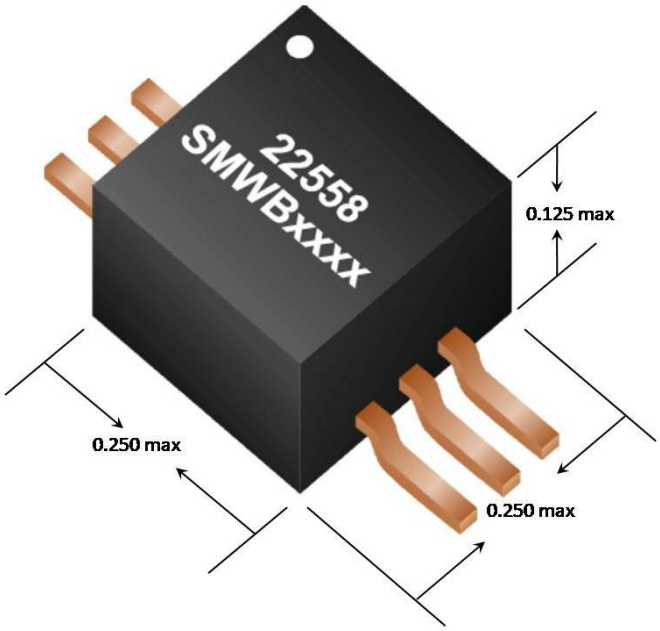
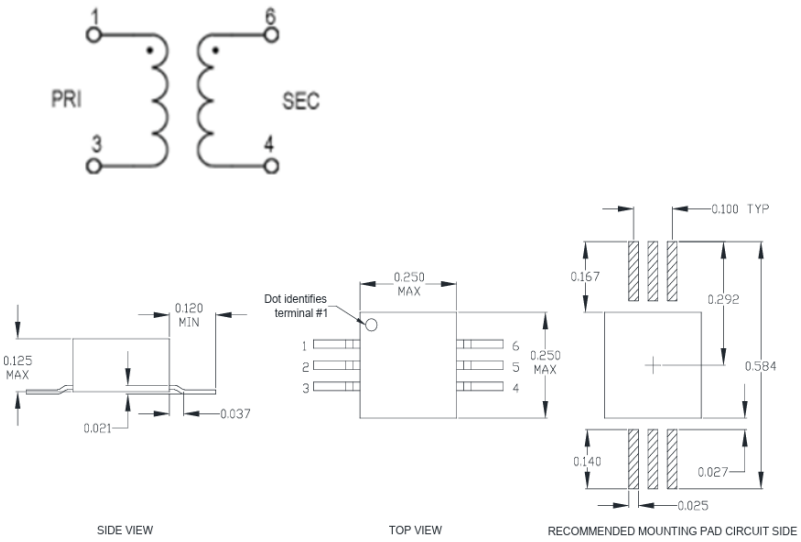
# Wideband Transformers – SMWB1000 Series




## SPECIFICATIONS

- **Frequency Response**: 500 kHz to 350 MHz
- **Power Rating**: 250 mW
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +130°C
- Temperature Rise (at 90°C): 35°C
- **Standard Termination Finish:** Tin-lead
- **Weight:** 1.25 gram, maximum
- **Dielectric Withstanding Voltage:** 300 Vac
- **Glass Transition Temperature ($T_g$):** 165°C
- **Coefficient of Thermal Expansion (CTE):**
  Before $T_g$ 18 ppm/°C
  After $T_g$ 54 ppm/°C

## FEATURES

- Transfer Molded Package
- Marking: Laser or Ink
- Leadless device for minimum footprint
- Internal Welded Terminations
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Available for Military Application per MIL-PRF-27 (see MWB Series)
- Available for Space Application per MIL-STD-981 (see SMWB Series)

## APPLICATIONS

These components meet the requirements of MIL-PRF-27 and MIL-STD-981, Class S or Class B classifications:

- **Class S:** Specifically engineered for critical flight operations and essential ground support missions, as well as any application where safety is critical. These components undergo a stringent quality validation process, which includes both Group A and Group B screening as per the requirements of MIL-STD-981.

- **Class B:** Suited for non-critical flight operations and non-essential ground support missions. The quality assurance process for these components encompasses Group A screening as per the requirements of MIL-STD-981.

## PART IDENTIFYING NUMBER

SMWB001 S

Coast/ACM Part Number

Product Class

***K: Inductance Tolerance***
*M: ±20%  K: ±10%  J: ±5%*

***S: Product Class***
*S: Class S  B: Class B*

# Wideband Transformers – SMWB1000 Series

| Part Number | Impedance Ratio Pri : Sec | Max Insertion Loss @50 MHz (dB) | Max VSWR @50 MHz | Min Bandwidth (MHz) | |
|---|---|---|---|---|---|
| | | | | 0.5 db (Ripple) | 3 dB Points |
| SMWB1000 Series | | | | | |
| SMWB1010 | 1 : 1 | 0.9 | 1.35 | 7.0 - 100 | 1.2 - 350 |
| SMWB1015 | 1 : 1.5 | 1.7 | 1.65 | 8.0 - 70 | 4.0 - 170 |
| SMWB1020 | 1 : 2 | 1.3 | 1.40 | 3.0 - 85 | 0.9 - 200 |
| SMWB1040 | 1 : 4 | 1.1 | 1.25 | 4.0 - 130 | 1.0 - 250 |
| SMWB1016 | 1 :16 | 1.5* | 1.95* | 12 - 25 | 2.5 - 110 |
| *Measured at 15 MHz | | | | | |