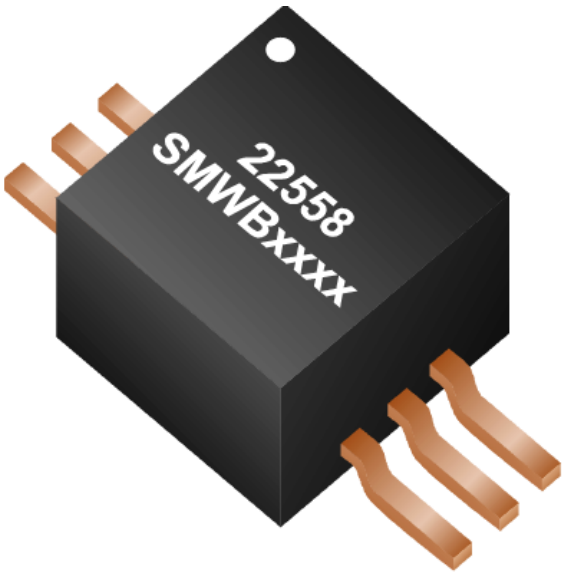
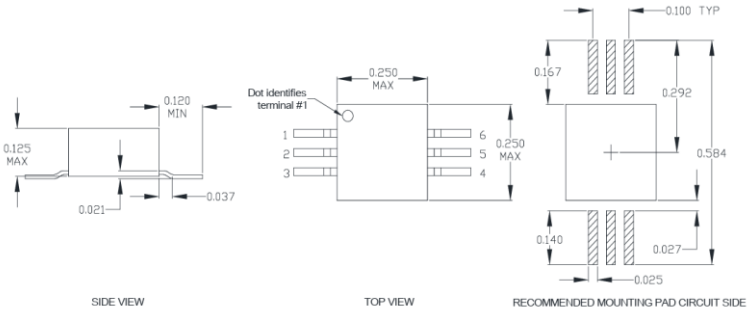
Wideband Transformers – SMWB Series

ISO 9001:2015 CERTIFIED | AS9100D CERTIFIED | ITAR REGISTERED



MIL-STD-981
MIL-PRF-27



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
- Outgassing meets NASA spec SP-R-0022A: TML < 1%
- Custom Designs: Other electrical configurations and performance characteristics are available in various sizes and package type

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

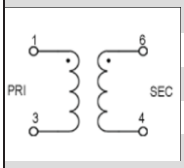
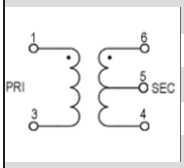
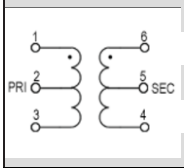
Coast/ACM Part Number

Product Class

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

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

Wideband Transformers – SMWB Series

Configuration	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
SMWB2000 Series						
	SMWB2010	1:1	0.7	1.30	5.0 - 130	1.0 - 390
	SMWB2015	1:1.5	1.5	1.60	6.0 - 90	3.0 - 200
	SMWB2020	1:2	1.1	1.35	2.0 - 100	0.5 - 230
	SMWB2040	1:4	0.9	1.20	2.0 - 150	0.8 - 300
	SMWB2016	1:16	1.2*	1.70*	12 - 35	2.0 - 140
SMWB3000 Series						
	SMWB3010	1:1	0.7	1.30	5.0 - 130	1.0 - 390
	SMWB3015	1:1.5	1.5	1.60	6.0 - 90	3.0 - 200
	SMWB3020	1:2	1.1	1.35	2.0 - 100	0.5 - 230
	SMWB3040	1:4	0.9	1.20	2.0 - 150	0.8 - 300
	SMWB3016	1:16	1.2*	1.70*	12 - 35	2.0 - 140
*Measured at 15 MHz						