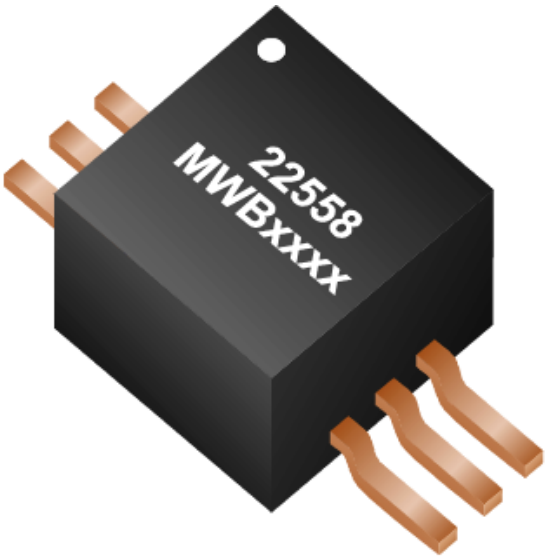
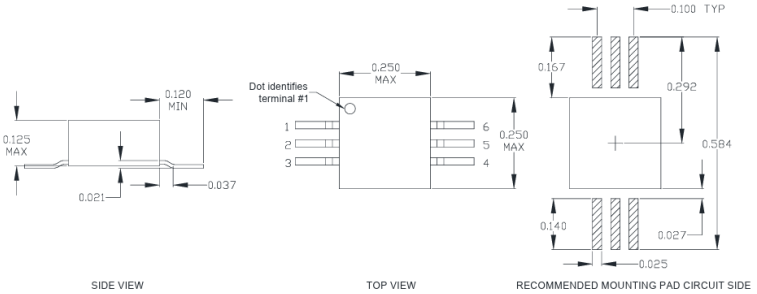
Wideband Transformers – MWB Series

ISO 9001:2015 CERTIFIED AS9100D CERTIFIED ITAR REGISTERED

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
- **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
- Custom Designs: Other electrical configurations and performance characteristics are available in various sizes and package type
- Available for Space Application per MIL-STD-981 (see SMWB Series)

APPLICATIONS

Designed to meet the requirements of MIL-PRF-27, ensuring optimal performance in military-grade applications

This specification pertains to molded, shielded electrical connectors and accessories, emphasizing reliability and robustness. Ideal for aerospace and defense applications, these inductors offer both durability and precision.

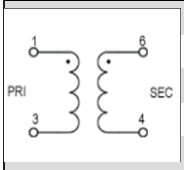
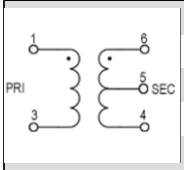
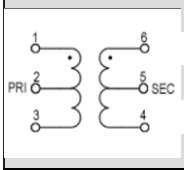
PART IDENTIFYING NUMBER

MWB001

Coast/ACM Part Number

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

Wideband Transformers – MWB 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
MWB1000 Series						
	MWB1010	1 : 1	0.9	1.35	7.0 - 100	1.2 - 350
	MWB1015	1 : 1.5	1.7	1.65	8.0 - 70	4.0 - 170
	MWB1020	1 : 2	1.3	1.40	3.0 - 85	0.9 - 200
	MWB1040	1 : 4	1.1	1.25	4.0 - 130	1.0 - 250
	MWB1016	1 : 16	1.5*	1.95*	12 - 25	2.5 - 110
MWB2000 Series						
	MWB2010	1 : 1	0.7	1.30	5.0 - 130	1.0 - 390
	MWB2015	1 : 1.5	1.5	1.60	6.0 - 90	3.0 - 200
	MWB2020	1 : 2	1.1	1.35	2.0 - 100	0.5 - 230
	MWB2040	1 : 4	0.9	1.20	2.0 - 150	0.8 - 300
	MWB2016	1 : 16	1.2*	1.70*	12 - 35	2.0 - 140
MWB3000 Series						
	MWB3010	1 : 1	0.7	1.30	5.0 - 130	1.0 - 390
	MWB3015	1 : 1.5	1.5	1.60	6.0 - 90	3.0 - 200
	MWB3020	1 : 2	1.1	1.35	2.0 - 100	0.5 - 230
	MWB3040	1 : 4	0.9	1.20	2.0 - 150	0.8 - 300
	MWB3016	1 : 16	1.2*	1.70*	12 - 35	2.0 - 140
*Measured at 15 MHz						