
Microwave, QPL & Space Rated Connectivity Solutions



Microwave Products

Attenuators

- DC - 40 GHz Performance
- Small Size, Light Weight, Rugged Construction
- Average Power Available up to 20 Watts
- SMA, TNC, QMA, Type N, BNC, SSMA, 2.9mm, 3.5mm and 7mm Connector Configurations
- Designed to Meet Military and Space Environmental Specifications



Terminations

- DC - 4, DC - 8, DC - 12.4, DC - 18, DC - 26 GHz, and DC-40 GHz Performance
- Small Size, Light Weight, Rugged Construction
- Average Power up to 20 Watts
- SMA, BMA, SMP, Type N, BNC, SC, 2.9mm, 3.5mm and 7mm Connector Configurations
- Designed to Meet Military and Space Environmental Specifications



Adapters

- In Between & In-Series
- Low VSWR and Insertion Loss
- 100% Swept Frequency Tested
- MIL-C-39012 Interfaces
- Rugged Stainless Steel Construction
- Precision Lab Grade Performance



Power Dividers

- DC - 18 GHz High Performance
- Broadband and Ultra-Broadband Frequency Coverage
- High Isolation – Low Phase and Amplitude Unbalance
- Small Size, Light Weight, Rugged Construction
- SMA, Type N, TNC Connector Configurations



DC Blocks

- Inside/Outside and Inside Only
- Greater Than 60 dB Isolation at 1kHz
- Low VSWR and Insertion Loss
- Rugged Stainless Steel Construction
- SMA, Type N, TNC, 7mm, 7/16 Connector Configurations



Couplers



- 0.5 - 18 GHz High Directivity Performance
- Octave, Broadband and Ultrabroadband Frequency Coverage
- Small Size, Light Weight, Rugged Construction
- Designed to Meet Military and Space Environmental Specifications

Equalizers



- DC - 18 GHz High Performance
- Broadband or Narrowband Frequency Coverage
- Linear Slope – Positive or Negative
- Half Sine or Half Sine Inverted *
- Linear Slope/Fine Grain and Half Sine/Fine Grain *

*Available as Custom Models

Qualified Parts List (QPL)



- Non-Screened and Screened Units Available
- 100% Tested
- Tested to meet/exceed Mil spec as a minimum standard of performance

QPL Products			
Attenuators	0-40 dB	DC - 18 GHz	MIL-DTL-3933
Terminations	SMA / Type N	DC - 18 GHz	MIL-DTL-39030
Connectors	SMA	DC - 18 GHz	MIL-PRF-39012

Space Qualified Products

- High Reliability Products Suitable for use Under Space Flight Conditions
- Complete Traceability of all Parts
- All Materials Meet or Exceed the 1% TML and 0.1% CVCM as per ASTM E595
- Manufactured to Individual Specifications and Testing as per example below

In-Process Inspections	Sample Size	Group A Inspections – 100%	Group B Inspections – 100%
Visual & Mechanical Dimensions	100%	Visual & Mechanical Inspection	Electrical Characteristics @ Operating Temperature Extremes
Plating Thickness	5 pcs	Thermal Shock	Contact Engaging/Separating Forces
Solderability	5 pcs	Sinusoidal Vibration	Coupling Mechanism Proof Torque
Plating Adhesion	5 pcs	Electrical Characteristics	Connector Mounting Proof Torque
Contact Captivation	100%	Peak Power	
Rotational Contact Retention	6 pcs	Connector Engaging/Separating Force	Group C Inspections - 100%
Axial Contact Retention	6 pcs	Radiographic Inspections	Vibration
Proof Torque	100%		Shock
Contact Engaging Force	100%		Moisture Resistance
Contact Separating Force	100%		Electrical Characteristics
			Resistance to Solvents



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About Emerson Network Power Connectivity Solutions

Emerson Network Power Connectivity Solutions, an Emerson business, serves the needs of wireless communications, military, telephony and data networks, CATV security systems, health care, military and industrial facilities with a full spectrum of RF/microwave and fiber optic connectivity products. For more information, visit www.EmersonConnectivity.com

About Emerson

Emerson (NYSE: EMR), based in St. Louis, is a global leader in bringing technology and engineering together to provide innovative solutions to customers through its network power, process management, industrial automation, climate technologies, and appliance and tools businesses. For more information, visit www.Emerson.com



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