



### Attenuators | DC - 40 GHz

- Designed to meet military standards
- Average power available up to 20 W
- Connector configurations: SMA, TNC, Type N, BNC, 2.9 mm, and 3.5 mm



### Terminations | DC - 50 GHz

- Designed to meet military standards
- Average power up to 20 W
- Connector configurations: SMA, TNC, Type N, BNC, 2.92 mm, 3.5 mm, and 2.4 mm



### Adapters | DC - 40 GHz

- Rugged stainless steel construction, lab quality performance
- In-Series and Between-Series
- Connector configurations: SMA, TNC, Type N, BNC, SSMA, 2.9 mm, 3.5 mm and 7 mm



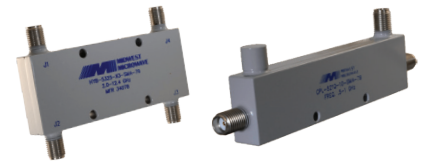
### Power Dividers | DC to 40 GHz

- Broadband and ultra-broadband frequency coverage
- 2-way, 3-way, 4-way, and 8-way standard models
- Connector configurations: 2.92mm, SMA, Type N, TNC



### DC Blocks

- Inside/outside and inside only
- Greater than 60 dB isolation at 1 kHz
- Low VSWR and insertion loss
- Connector configurations: SMA, Type N, TNC



### Couplers | 0.5 - 40 GHz

- Octave, broadband and ultra broadband frequency coverage
- 6 dB, 10 dB, 20 dB and 30 dB coupling value standard
- Hybrid crossover and non-crossover models available



### QPL Attenuators and Terminators

- Non-screened and screened units available
- Attenuators M3933/14, /16, /25
- Terminations M39030/3, /06



### QPS Attenuators

- Qualification and screening guided by MIL-DTL-3933 level T
- Meets or exceeds 1% TML and 0.1% CVCM
- Three standard screening levels available
- Standard values 1, 2, 3, 6, 10, and 20 dB
- Custom values from 0 to 20 dB available



### Commercial Grade

- Designed to meet requirements of today's commercial applications
- Best combination of price and performance
- All parts 100% tested to ensure reliability

### Specifications

MIL-HDBK-5400 and MIL-HDBK-2036 guidelines used to specify the listed environmental conditions below, that standard non QPL catalog products of Midwest Microwave are designed to meet.

<b>Temperature Range</b>	Operating: -55°C to +125°C Non-Operating: -65°C to +125°C																		
<b>Thermal Shock</b>	MIL-STD-202G Method 107, Test Condition B 5 cycles, -65°C to +125°C																		
<b>Vibration</b>	MIL-STD-202G Method 204, Test Condition B 0.06" Double Amplitude Displacement 10 - 70 Hz 15 G's peak 70 - 2000 Hz 12 cycles (10 - 2000 - 10 Hz) each axis for 20 min per cycle																		
<b>Shock</b>	MIL-STD-202G Method 213, Test Condition J 1/2 sine, 30 G's, 11 ms duration 3 shock pulses in each direction along 3 axis. Total 18 pulses																		
<b>Humidity</b>	MIL-STD-202G Method 106, except for steps 7a and 7b 98% relative humidity, 25°C to 65°C, 10 cycles, 240 Hrs																		
<b>Salt Spray (Corrosion)</b>	MIL-STD-202G Method 101, Test Condition B (48 Hrs)																		
<b>Temperature / Altitude</b>	70,000 ft. -65°C to +115°C <table border="0"> <tr> <td>1. +25°C</td> <td>1 Atm.</td> <td>Stabilized</td> </tr> <tr> <td>2. -65°C</td> <td>1 Atm.</td> <td>1 Hour hot soak</td> </tr> <tr> <td>3. -55°C</td> <td>70,000 ft.</td> <td>Stabilized</td> </tr> <tr> <td>4. -10°C</td> <td>1 Atm.</td> <td>Form frost</td> </tr> <tr> <td>5. +115°C</td> <td>70,000 ft.</td> <td>1 Hour hot soak</td> </tr> <tr> <td>6. +25°C</td> <td>1 Atm.</td> <td>Stabilized</td> </tr> </table>	1. +25°C	1 Atm.	Stabilized	2. -65°C	1 Atm.	1 Hour hot soak	3. -55°C	70,000 ft.	Stabilized	4. -10°C	1 Atm.	Form frost	5. +115°C	70,000 ft.	1 Hour hot soak	6. +25°C	1 Atm.	Stabilized
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<b>RFI Leakage</b>	-40 dBc																		

**NOTE:**

Requirements other than those specified above need to be reviewed on a case-by-case basis.

Midwest Microwave products routinely meet environmental requirements more severe than noted above. In each case, they were treated as custom parts with specially assigned custom part numbers.

Contact customer service to inquire about any custom requirements.

Cinch Connectivity Solutions reserves the right to change specifications without notice.