

Multi-Couplers

- 500 MHz - 18.0 GHz Frequency Coverage
- Custom Coupling Values
- Rugged Stripline Construction
- Small Size, Light Weight
- Meets MIL-E-5400 and MIL-16400

Midwest Microwave offers a wide range of Multi-Couplers that can be custom designed to fit specific applications. By using one primary line and integrating a number of couplers within one circuit, enhanced performance within a smaller package size as well as a reduction in cost can be realized. Lower insertion loss, better frequency sensitivity, and lower VSWR can also be attained because of the reduction of reflective discontinuities and impedance mismatches inherent in a system using several individual couplers.

Model Number: [CPL-5027-5P-SMA-79](#)



SPECIFICATIONS

Frequency: 3.5-4.5 GHz

VSWR: 1.25 max

Coupling Values: J1: 21 dB J2: 22 dB J3: 30 dB
J4: 20 dB J5: 20 dB

Coupling Accuracy: ± 0.5 dB

Flatness: ± 0.3 dB

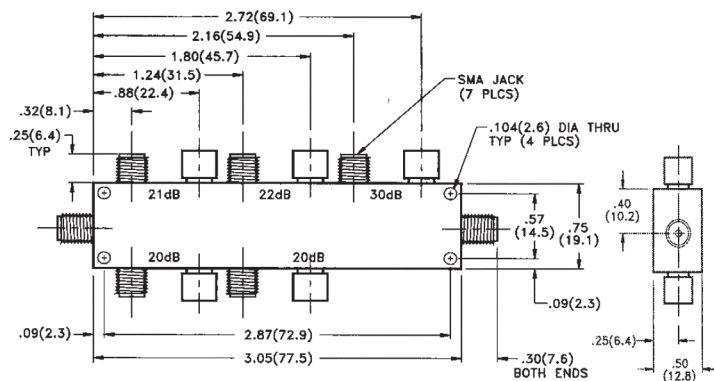
Directivity: 20 dB min

Insertion Loss: 0.6 dB max

Power: 50 Watts avg

Operating Temperature Range: -45 °C to +71 °C

Connectors: Passivated Stainless Steel SMA Female



30 dB Ultra-Broadband Monitor Coupler

- 2.0 - 18.0 GHz Frequency Band
- 100 Watt Input Power
- N, TNC, or SMA Connectors
- Small Size, Light Weight

This Ultra-Broadband 30 dB Coupler was designed to provide a simple way to monitor signals over a very wide bandwidth. It is very useful for detecting the presence of a microwave signal that is present or supposed to be present on the primary line. The primary line can sustain 100 Watt average power levels and 3.2 Kw peak.

Model Number: [CPL-5028-30-NNN-79](#)



SPECIFICATIONS

Frequency: 2.0-18.0 GHz

VSWR: 1.50 max

Coupling Value: 30 dB

Coupling Accuracy: ± 5.0 dB @ 2.0-4.0 GHz
 ± 2.0 dB @ 4.0-18.0 dB

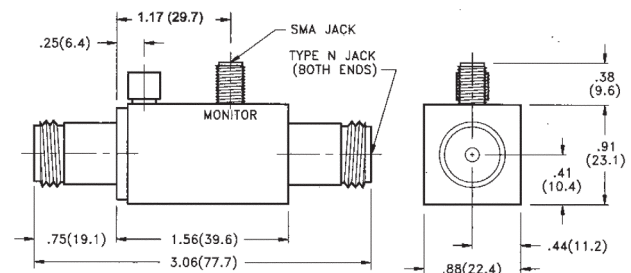
Insertion Loss: 0.6 dB max

Directivity: 10 dB min

Power: 100 Watts avg

Operating Temperature Range: 0 °C to +55 °C

Connectors: Passivated Stainless Steel SMA, TNC, or N Female or Male



Note: SMA or Type TNC output connectors are available by substituting "SMA" or "TNC" for "NNN" in the Model Number.