

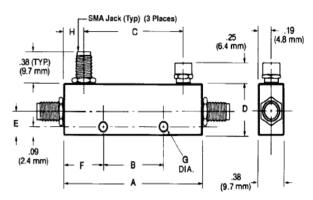
Directional Couplers, Multi-Octave

Rev. V2

Features

- · Flat Frequency Response
- Frequency Range: 0.5 18 GHz
- Multi-Octave Bandwidths
- Temperature Range: -54°C to +125°C
- Meets MIL-E-5400 Environments

Outline Drawing



NOTE: All dimensions are \pm .020, except mounting hole diameters (\pm .005) and mounting hole location (\pm .010).

Specifications

| Part Number | Case Style | Freq. Range (GHz) | Coupling (Include. Freq. Sens.(dB) | Freq. Sens. (dB) | Insertion Loss Max (dB) | Direct. Min. (dB) | VSWR Max Prim Line | VSWR Max Sec Line | Power (Input) Avg. In. (w) | Power (Input) Avg. Refl. (W) | Power (Input) Pk. (kW) |
|------------------------------|---------------|-------------------------|---|------------------------|-------------------------------|-------------------------|-----------------------------|----------------------------|-------------------------------------|--|---------------------------------|
| 2025-6001-06 | 1 | 0.5.0.0 | 6 ± 1.0 | ±0.4 | 0.4 | 18 | 1.15 | 1.15 | 50 | 4 | 4 |
| 2025-6002-10 | 1 | 0.5-2.0 | 10 ± 1.0 | ±0.4 | 0.35 | 18 | 1.15 | 1.15 | 50 | 10 | 4 |
| 2025-6003-16 2025-6004-20 | 1 | | 16 ± 1.0* 20 ± 1.0 | ±0.4 ±0.4 | 0.3 0.3 | 22 22 | 1.15 1.15 | 1.15 1.15 | 50 50 | 40 50 | 4 4 |
| 2025-6005-06 | 2 | | 6 ± 1.0 | ±0.4 | 0.35 | 18 | 1.20 | 1.20 | 50 | 4 | 4 |
| 2025-6006-10 | 2 | 1.0-4.0 | 10 ± 1.0 | ±0.4 | 0.3 | 18 | 1.20 | 1.20 | 50 | 10 | 4 |
| 2025-6007-16 | 2 | | 16 ± 1.0* | ±0.4 | 0.3 | 22 | 1.20 | 1.20 | 50 | 40 | 4 |
| 2025-6008-20 | 2 | | 20 ± 1.0 | ±0.4 | 0.3 | 22 | 1.20 | 1.20 | 50 | 50 | 4 |
| 2025-6009-06 | 3 | | 6 ± 1.0 | ±0.3 | 0.4 | 18 | 1.25 | 1.25 | 50 | 4 | 4 |
| 2025-6010-10 | 3 | 2.0-8.4 | 10 ± 1.0 | ±0.3 | 0.35 | 18 | 1.25 | 1.25 | 50 | 10 | 4 |
| 2025-6012-20 | 3 | | 20 ± 1.0 | ±0.3 | 0.35 | 20 | 1.25 | 1.25 | 50 | 50 | 4 |
| | | | | | | | | | 50 | | 4 |
| 2025-6013-06 | 4 | | 6 ± 1.0 | ±0.4 | 0.5 | 15 | 1.30 | 1.30 | 50 | 4 | 4 |
| 2025-6014-10 | 4 | 4.0-12.4 | 10 ± 1.0 | ±0.4 | 0.5 | 15 | 1.30 | 1.30 | 50 | 10 | 4 |
| 2025-6015-16 | 4 | | 16 ± 1.0* | ±0.4 | 0.5 | 15 | 1.30 | 1.30 | 50 | 40 | 4 |
| 2025-6016-20 | 4 | | 20 ± 1.0 | ±0.4 | 0.5 | 15 | 1.30 | 1.30 | 50 | 50 | 4 |
| 2025-6017-06 | 5 | | 6 ± 1.0 | ±0.4 | 0.7 | 15 | 1.40 | 1.40 | 50 | 4 | 4 |
| 2025-6018-10 | 5 | 6.0-18.0 | 10 ± 1.0 | ±0.4 | 0.6 | 16 | 1.40 | 1.40 | 50 | 10 | 4 |
| 2025-6019-16 | 5 | | 16 ± 1.0* | ±0.4 | 0.6 | 16 | 1.40 | 1.40 | 50 | 40 | 4 |
| 2025-6020-20 | 5 | | 20 ± 1.0 | ±0.4 | 0.6 | 15 | 1.40 | 1.40 | 50 | 50 | 4 |

Mechanical Specifications

*Reference to output port for use as leveling coupler.

| Case Style | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | G Inch (mm) | H Inch (mm) | Weight oz | Weight g |
|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------|-------------|
| 1 | 4.92 (125) | 3.5 (89) | 4.42 (112) | 0.60 (15.2) | 0.27 (6.73) | 0.71 (18.1) | 0.143 (3.63) | 0.25 (6.4) | 2.10 | 58.8 |
| 2 | 2.66(67.6) | 1.48 (37.6) | 2.22 (56.4) | 0.60 (15.2) | 0.27 (6.73) | 0.59 (15) | 0.143 (3.63) | 0.22 (5.59) | 1.26 | 35.3 |
| 3 | 1.99 (50.5) | 0.88 (22.2) | 1.44 (36.6) | 0.63 (15.9) | 0.28 (7.11) | 0.56 (14.2) | 0.143 (3.63) | 0.28 (7.06) | 1.05 | 29.4 |
| 4 | 1.21 (30.7) | 0.38 (9.7) | 0.69 (17.6) | 0.60 (15.2) | 0.22 (5.56) | 0.42 (10.6) | 0.104 (2.64) | 0.26 (6.55) | 0.74 | 20.7 |
| 5 | 1.16 (29.5) | 0.50 (12.7) | 0.65 (16.5) | 0.57 (14.4) | 0.25 (6.35) | 0.33 (8.33) | 0.104 (2.64) | 0.25 (6.45) | 0.69 | 19.3 |

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2025 Series



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