

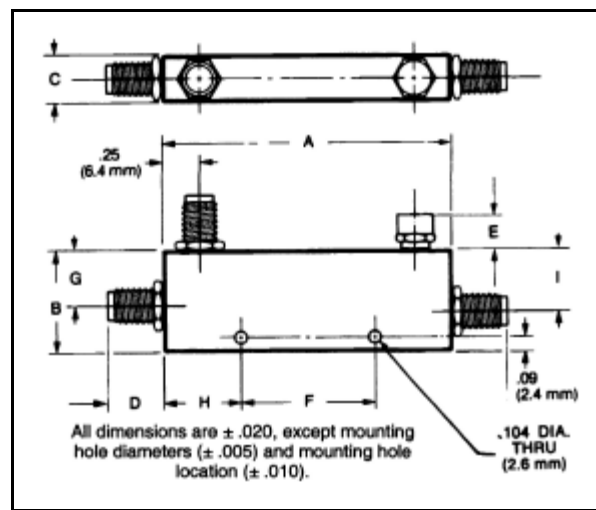
## Features

- Frequency Range: 0.5 - 18 GHz
- Standard Coupling Values: 10 and 20 dB
- Temperature Range: -54°C to +125°C
- Connectors: SMA per MIL-C-39012
- Isolated Port with Non-Removable 50 Ohm Termination

## Description

These compact broad band couplers operate over frequency bandwidths of 12 to 1 up to 36 to 1. Each coupler is constructed in a rugged aluminum housing with Stripline circuitry. The input, output and coupled output ports are stainless steel SMA connectors. The isolated port is terminated with a non-removable precision 50 ohm termination. Custom variations of these designs to specific requirements can also be produced.

## OUTLINE DRAWING



## Specifications

| Part Number  | Case Style | Frequency Range (GHz) | Coupling (Includes Frequency Sensitivity) | Frequency Sensitivity (dB) | Insertion Loss (dB) Max. | Directivity (dB) Min. | VSWR (PRI. Line) Max. | Power (Input Port) |              |         |
|--------------|------------|-----------------------|-------------------------------------------|----------------------------|--------------------------|-----------------------|-----------------------|--------------------|--------------|---------|
|              |            |                       |                                           |                            |                          |                       |                       | Avg In (W)         | Avg Refl (W) | Pk (kW) |
| 2026-6001-10 | 1          | 1.0 - 12.4            | 10 ± 1                                    | ± 0.4                      | .35 + .04fGHz            | 18 <sup>1</sup>       | 1.30                  | 50                 | 10           | 3       |
| 2026-6003-20 | 1          |                       | 20 ± 1                                    | ± 0.6                      | .35 + .04fGHz            | 17                    | 1.30                  | 50                 | 50           | 3       |
| 2026-6004-10 | 2          | 2.0 - 18.0            | 10 ± 1                                    | ± 0.5                      | .30 + .03fGHz            | 15 <sup>2</sup>       | 1.35                  | 50                 | 10           | 3       |
| 2026-6006-20 | 2          |                       | 20 ± 1                                    | ± 0.5                      | .30 + .03fGHz            | 18 <sup>3</sup>       | 1.35                  | 50                 | 50           | 3       |
| 2026-6007-10 | 1          | 1.0 - 18.0            | 10 ± 1 <sup>4</sup>                       | ± 0.5                      | .30 + .05fGHz            | 15 <sup>2</sup>       | 1.40                  | 50                 | 10           | 3       |
| 2026-6009-20 | 1          |                       | 20 ± 1                                    | ± 0.6                      | .30 + .05fGHz            | 17 <sup>3</sup>       | 1.40                  | 50                 | 50           | 3       |
| 2026-6010-10 | 3          | 0.5 - 18.0            | 10 ± 1                                    | ± 1.0                      | .90 + .03fGHz            | 15 <sup>2</sup>       | 1.50                  | 50                 | 10           | 3       |
| 2026-6012-20 | 3          |                       | 20 ± 1                                    | ± 1.0                      | .90 + .03fGHz            | 15                    | 1.50                  | 50                 | 50           | 3       |

1. 15 dB from 8.0 to 12.4 GHz  
2. 12 dB from 12.4 to 18 GHz

3. 15 dB from 12.4 to 18 GHz  
4. -1.5 to 1.0 from 0.5 to 2 GHz only

## Mechanical Specifications

| Case Style | Size Inches (mm) |            |           |           |           |             |            |            |            | Weight |    |
|------------|------------------|------------|-----------|-----------|-----------|-------------|------------|------------|------------|--------|----|
|            | A                | B          | C         | D         | E         | F           | G          | H          | I          | oz.    | g  |
| 1          | 3.8 (97)         | .69 (17.5) | .38 (9.7) | .38 (9.7) | .25 (6.4) | 2.31 (58.7) | .39 (9.9)  | .75 (19)   | .44 (11.1) | 2.0    | 56 |
| 2          | 2.0 (50.8)       | .69 (17.5) | .38 (9.7) | .38 (9.7) | .25 (6.4) | .95 (24.2)  | .38 (9.7)  | .53 (13.5) | .42 (10.7) | 1.3    | 37 |
| 3          | 4.4 (111.8)      | .73 (18.5) | .38 (9.7) | .38 (9.7) | .25 (6.4) | 2.90 (73.7) | .48 (12.2) | .75 (19)   | .48 (12.2) | 2.5    | 71 |

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