

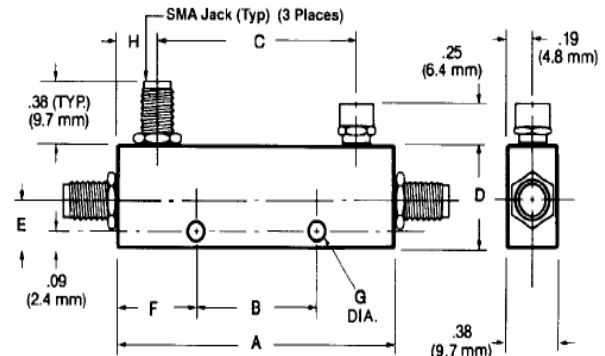
Directional Couplers, Multi-Octave

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	0.5-2.0	6 $\pm$ 1.0	$\pm$ 0.4	0.4	18	1.15	1.15	50	4	4
2025-6002-10	1		10 $\pm$ 1.0	$\pm$ 0.4	0.35	18	1.15	1.15	50	10	4
2025-6003-16	1		16 $\pm$ 1.0*	$\pm$ 0.4	0.3	22	1.15	1.15	50	40	4
2025-6004-20	1		20 $\pm$ 1.0	$\pm$ 0.4	0.3	22	1.15	1.15	50	50	4
2025-6005-06	2	1.0-4.0	6 $\pm$ 1.0	$\pm$ 0.4	0.35	18	1.20	1.20	50	4	4
2025-6006-10	2		10 $\pm$ 1.0	$\pm$ 0.4	0.3	18	1.20	1.20	50	10	4
2025-6007-16	2		16 $\pm$ 1.0*	$\pm$ 0.4	0.3	22	1.20	1.20	50	40	4
2025-6008-20	2		20 $\pm$ 1.0	$\pm$ 0.4	0.3	22	1.20	1.20	50	50	4
2025-6009-06	3	2.0-8.4	6 $\pm$ 1.0	$\pm$ 0.3	0.4	18	1.25	1.25	50	4	4
2025-6010-10	3		10 $\pm$ 1.0	$\pm$ 0.3	0.35	18	1.25	1.25	50	10	4
2025-6012-20	3		20 $\pm$ 1.0	$\pm$ 0.3	0.35	20	1.25	1.25	50	50	4
									50		4
2025-6013-06	4	4.0-12.4	6 $\pm$ 1.0	$\pm$ 0.4	0.5	15	1.30	1.30	50	4	4
2025-6014-10	4		10 $\pm$ 1.0	$\pm$ 0.4	0.5	15	1.30	1.30	50	10	4
2025-6015-16	4		16 $\pm$ 1.0*	$\pm$ 0.4	0.5	15	1.30	1.30	50	40	4
2025-6016-20	4		20 $\pm$ 1.0	$\pm$ 0.4	0.5	15	1.30	1.30	50	50	4
2025-6017-06	5	6.0-18.0	6 $\pm$ 1.0	$\pm$ 0.4	0.7	15	1.40	1.40	50	4	4
2025-6018-10	5		10 $\pm$ 1.0	$\pm$ 0.4	0.6	16	1.40	1.40	50	10	4
2025-6019-16	5		16 $\pm$ 1.0*	$\pm$ 0.4	0.6	16	1.40	1.40	50	40	4
2025-6020-20	5		20 $\pm$ 1.0	$\pm$ 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

1

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

• North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400
• India Tel: +91.80.4155721 • China Tel: +86.21.2407.1588

Visit www.macomtech.com for additional data sheets and product information.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make changes to the product(s) or information contained herein without notice.