

2025 Series



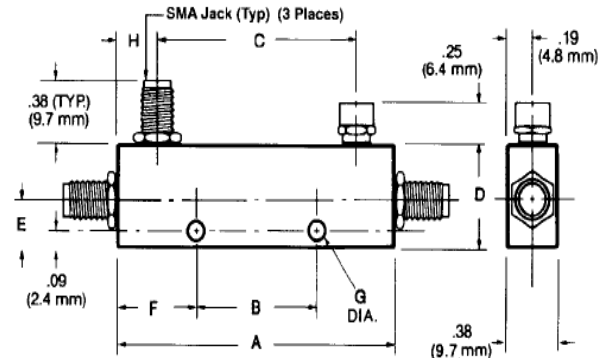
Directional Couplers, Multi-Octave

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
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

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