

Air Dielectric Directional Couplers

Low Loss, Octave Bandwidth

2023 Series

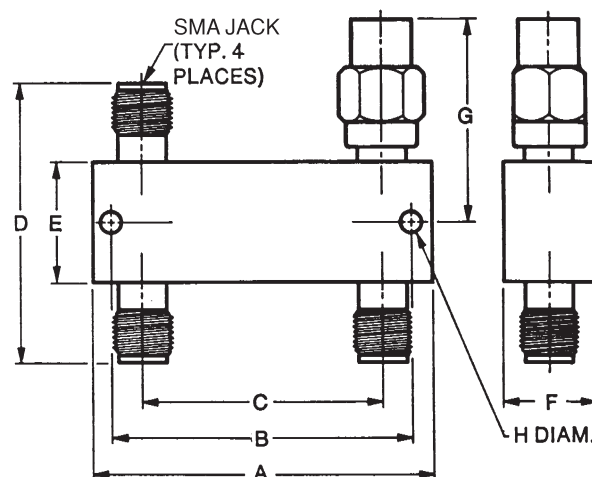
V2.00

Features

- Air Dielectric for Low Loss
- Frequency Range: 1.0 to 18 GHz
- Octave Bandwidths
- Meets MIL-E-5400 and MIL-E-16400 Environments

Description

These directional couplers feature compact packaging and four-port construction. This combination permits flexibility in system designs. They are intended for test and measurement setups as well as for system use. Temperature range is -54° to +110°C. These units incorporate three miniature, low VSWR SMA jack connectors. Isolated port is terminated with 1/2 watt, 50 ohm load.



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

Mechanical Specifications

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.	g
1	2.55 (64.8)	2.39 (60.8)	1.97 (50.1)	1.16 (29.4)	0.50 (12.7)	0.38 (9.7)	0.91 (23.2)	0.093 (2.36)	1.90	54
2	1.69 (42.7)	1.52 (38.7)	1.11 (28.2)	1.16 (29.4)	0.50 (12.7)	0.38 (9.7)	0.91 (23.2)	0.093 (2.36)	1.10	31
3	1.41 (35.6)	1.24 (31.5)	0.82 (20.8)	1.16 (29.4)	0.50 (12.7)	0.38 (9.7)	0.91 (23.2)	0.093 (2.36)	1.07	31
4	1.19 (30.0)	1.02 (26.0)	0.60 (15.2)	1.16 (29.4)	0.50 (12.7)	0.38 (9.7)	0.91 (23.2)	0.093 (2.36)	0.98	28
5	1.08 (27.4)	0.92 (23.4)	0.50 (12.7)	1.28 (32.6)	0.63 (15.9)	0.38 (9.7)	0.97 (24.6)	0.093 (2.36)	1.01	30

Specifications

Part No.	Case Style	Frequency Range (GHz)	Coupling (Includ. Freq. Sens.) (dB)	Freq. Sens. (dB)	Insert. Loss Max. (dB)	Direct. Min. (dB)	VSWR Max.	Power Avg. (W)	Pk (kW)	M/A-COM MIL-C-15370/10* Commercial Equivalent Part No.
2023-6121-06	1	1.0 - 2.0	6 $\pm$ 1.0	$\pm$ 0.50	0.20	20	1.20	2	2	2023-4011-06
2023-6122-10	1		10 $\pm$ 1.0	$\pm$ 0.75	0.20	20	1.20	5	2	2023-4012-10
2023-6123-20	1		20 $\pm$ 1.0	$\pm$ 1.00	0.20	20	1.20	50	2	2023-4013-20
2023-6124-06	2	2.0 - 4.0	6 $\pm$ 1.0	$\pm$ 0.50	0.20	20	1.20	2	2	2023-4014-06
2023-6125-10	2		10 $\pm$ 1.0	$\pm$ 0.75	0.20	20	1.20	5	2	—
2023-6126-20	2		20 $\pm$ 1.0	$\pm$ 1.00	0.20	20	1.20	50	2	—
2023-6127-06	3	2.6 - 5.2	6 $\pm$ 1.0	$\pm$ 0.60	0.20	18	1.25	2	2	—
2023-6128-10	3		10 $\pm$ 1.0	$\pm$ 0.75	0.20	18	1.25	5	2	—
2023-6129-20	3		20 $\pm$ 1.0	$\pm$ 1.00	0.20	18	1.25	50	2	—
2023-6130-06	4	4.0 - 8.0	6 $\pm$ 1.0	$\pm$ 0.60	0.20	18	1.25	2	2	2023-4015-10
2023-6131-10	4		10 $\pm$ 1.0	$\pm$ 0.75	0.20	18	1.25	5	2	—
2023-6132-20	4		20 $\pm$ 1.0	$\pm$ 1.00	0.20	18	1.25	50	2	—
2023-6133-06	5	8.0 - 12.4	6 $\pm$ 1.0	$\pm$ 0.50	0.25	15	1.30	2	2	—
2023-6134-10	5		10 $\pm$ 1.0	$\pm$ 0.75	0.25	15	1.30	5	2	2023-4016-10
2023-6135-20	5		20 $\pm$ 1.0	$\pm$ 1.00	0.25	15	1.30	50	2	2023-4017-20
2023-6136-06	5	12.4 - 18.0	6 $\pm$ 1.0	$\pm$ 0.60	0.25	12	1.35	2	2	2023-4085-06
2023-6137-10	5		10 $\pm$ 1.0	$\pm$ 0.75	0.25	12	1.35	5	2	—
2023-6138-20	5		20 $\pm$ 1.0	$\pm$ 1.00	0.25	12	1.35	50	2	—