

# Air Dielectric Directional Couplers

## Low Loss, Octave Bandwidth

2023 Series

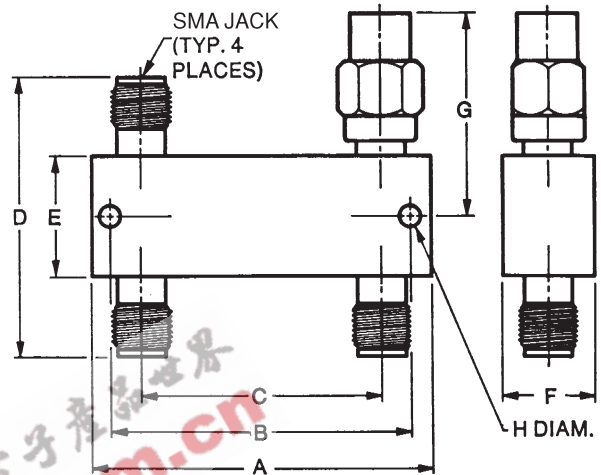
V2.00

### 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	B	C	D	E	F	G	H	Weight	
	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	Inch (mm)	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 ±1.0	±0.50	0.20	20	1.20	2	2	2023-4011-06
2023-6122-10	1		10 ±1.0	±0.75	0.20	20	1.20	5	2	2023-4012-10
2023-6123-20	1		20 ±1.0	±1.00	0.20	20	1.20	50	2	2023-4013-20
2023-6124-06	2	2.0 - 4.0	6 ±1.0	±0.50	0.20	20	1.20	2	2	2023-4014-06
2023-6125-10	2		10 ±1.0	±0.75	0.20	20	1.20	5	2	—
2023-6126-20	2		20 ±1.0	±1.00	0.20	20	1.20	50	2	—
2023-6127-06	3	2.6 - 5.2	6 ±1.0	±0.60	0.20	18	1.25	2	2	—
2023-6128-10	3		10 ±1.0	±0.75	0.20	18	1.25	5	2	—
2023-6129-20	3		20 ±1.0	±1.00	0.20	18	1.25	50	2	—
2023-6130-06	4	4.0 - 8.0	6 ±1.0	±0.60	0.20	18	1.25	2	2	2023-4015-10
2023-6131-10	4		10 ±1.0	±0.75	0.20	18	1.25	5	2	—
2023-6132-20	4		20 ±1.0	±1.00	0.20	18	1.25	50	2	—
2023-6133-06	5	8.0 - 12.4	6 ±1.0	±0.50	0.25	15	1.30	2	2	—
2023-6134-10	5		10 ±1.0	±0.75	0.25	15	1.30	5	2	2023-4016-10
2023-6135-20	5		20 ±1.0	±1.00	0.25	15	1.30	50	2	2023-4017-20
2023-6136-06	5	12.4 - 18.0	6 ±1.0	±0.60	0.25	12	1.35	2	2	2023-4085-06
2023-6137-10	5		10 ±1.0	±0.75	0.25	12	1.35	5	2	—
2023-6138-20	5		20 ±1.0	±1.00	0.25	12	1.35	50	2	—