# 2026 Series

### Directional Couplers Ultra-Broadband



МАСОМ

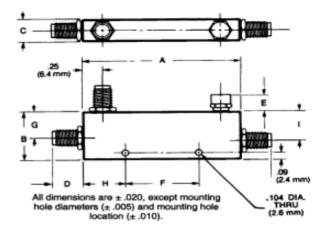
#### **Features**

- 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	Freq. Range (GHz)	inge (Include. Sens.		Insertion Loss Max (dB)			Power (Input) Avg. In. (w)	Power (Input) Avg. Ref(W)	Power (Input) Pk. (kW)
2026-6001-10	1	1.0 - 12.4	10 ± 1.0	±0.4	0.35 + 0.04fGHz	18 <sup>1</sup>	1.30	50	10	3
2026-6003-20	1	1.0 - 12.4	20 ± 1.0	±0.6	0.35 + 0.04fGHz	17	1.30	50	50	3
2026-6004-10	2	2.0 - 18.0	10 ± 1.0	±0.5	0.30 + 0.03fGHz	15 <sup>2</sup>	1.35	50	10	3
2026-6007-10	1	1.0 - 18.0	$10 \pm 1.0^4$	±0.5	0.30 + 0.05fGHz	15 <sup>2</sup>	1.40	50	10	3
2026-6009-20	1	1.0 - 18.0	20 ± 1.0	±0.6	0.30 + 0.05fGHz	17 <sup>3</sup>	1.40	50	50	3
2026-6010-10	3	0.5 - 18.0	10 ± 1.0	±1.0	0.90 + 0.03fGHz	15 <sup>2</sup>	1.50	50	10	3
2026-6012-20	3	0.5 - 18.0	20 ± 1.0	±1.0	0.90 + 0.03fGHz	15	1.50	50	50	3

#### **Mechanical Specifications**

1. 15 dB from 8.0 to 12.4 GHz  $\,$  3. 15 dB from 12.4 t0 18 GHz  $\,$ 

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)	l Inch (mm)	Weight oz	Weight g
1	3.8 (97)	0.69 (17.5)	0.38 (9.7)	0.38 (9.7)	0.25 (6.4)	2.31 (58.7)	0.39 (9.9)	0.75 (19)	0.44 (11.1)	2.0	56
2	2.0 (50.8)	0.69 (17.5)	0.38 (9.7)	0.38 (9.7)	0.25 (6.4)	0.95 (24.2)	0.38 (9.7)	0.53 (13.5)	0.42 (10.7)	1.3	37
3	4.4 (111.8)	0.73 (18.5)	0.38 (9.7)	0.38 (9.7)	0.25 (6.4)	2.90 (73.7)	0.48 (12.2)	0.75 (19)	0.48 (12.2)	2.5	71

<sup>1</sup> 

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Rev. V4

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