

# PDM-25R SERIES – 0° POWER DIVIDERS/COMBINERS

## TECHNICAL FEATURE

### FEATURES

- 0.3 to 26.5 GHZ
- 2-way
- Extremely Wide Instantaneous BW
- Uniform Phase & Amplitude Balance
- SMA

<b>PRINCIPAL SPECIFICATIONS</b>										
Model Number	Freq. Range, GHz	Isolation, dB		Insert. Loss, dB, Max.	Phase Bal., Max.	Amplitude Bal., dB, Max.		VSWR Max., @		Outline Drawing Ref.
		Min.	Max.			Input	Output	@VSWR <sub>out</sub> 1.2:1	∞	
PDM-25R-8.8G	0.3 - 2.0	7	0.8	10°	0.6	1.80:1	2.20:1	30	1	1
	2.0 - 6.0	12	1.5	10°	0.6	1.60:1	1.80:1	30	1	1
	6.0 - 18.0	17	4	10°	0.6	1.60:1	1.50:1	30	1	1
PDM-25R-9.2G	0.5 - 18.0	17	1.7	5°	0.3	1.40:1	1.40:1	30	1	7
PDM-25R-16G	6.0 - 26.5	17	1.7	10°	0.8	1.70:1	1.60:1	30	1	6

**General Notes:**  
 1. The PDM-25R series of 2-way In-Phase Power Dividers/Combiners covers 0.3 GHz to 26.5 GHz using a smooth distributed resistive design which provides high isolation and low VSWR across a broad frequency range. Many units are stocked.

**GENERAL SPECIFICATIONS**  
 Impedance: 50 Ω nom.  
 Operating Temperature: -55° to +85°C  
 Weights shown: All are nominal

**Package Outline**

CONNECTOR, RECEPTACLE, FEMALE, SMA TYPE, MATES WITH CONNECTOR, PLUG, MALE PER MIL-C-39012 TYP

OUTLINE	A	B	C	D	E	F	G	H	J
1	2.250 ± 0.040 57.15 ± 1.02	11.500 ± 0.050 292.10 ± 1.27	5.00 ± 0.030 12.70 ± 0.76	.250 6.35	1.125 28.58	5.00 ± 0.030 12.70 ± 0.76	5.00 ± 0.030 12.70 ± 0.76	.125 3.18	2.000 50.80
6	.1060 26.92	.1150 29.21	.384 9.75	.192 4.88	.530 13.46	.280 7.11	.280 7.11	.090 2.29	.880 22.35
7	.1030 26.16	.7750 196.85	.500 12.70	.250 6.35	.515 13.08	.260 6.60	.260 6.60	.150 3.81	.730 18.54

  

OUTLINE	K	L	M	N	WT. OZ. (G)
1	.750 19.05	—	10.000 (254) ON 2.000±0.010 (50.80±0.25) CENTERS TOL. NON-ACCUMULATIVE	.125/.131 (3.18/3.33) DIA. THRU, 12 HOLES	20 (567)
6	—	.575 14.61	—	.103/.108 (2.62/2.74) DIA THRU, 2 HOLES	2.0 (57)
7	.1125 28.58	—	5.500 ± 0.020 (139.70 ± 0.51)	.134/.154 (3.40/3.91) DIA THRU, 4 HOLES	9.0 (255)

NOTES: 1. Tolerance on 3 place decimals ±.020(.51) except as noted.  
 2. Dimensions in inches over millimeters.

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