

PDM-81M SERIES – 0° POWER DIVIDERS/COMBINERS

TECHNICAL FEATURE

FEATURES

- 2 to 18 GHz
- 8-way
- Uniform Phase & Amplitude Balance
- Low Insertion Loss
- High Isolation
- SMA

PRINCIPAL SPECIFICATIONS										
Model Number	Frequency Range, GHz	Isolation, dB, Min.	Insertion Loss, dB, Max.	Phase Balance, Max.	Amplitude Balance, dB, Max.	VSWR, Max.		Weight, oz. (g) Nom.	Outline Dwg.	
						In	Out			
PDM-81M-3G	2.0 - 4.0	18	1.0	5°	0.4	1.60:1	1.60:1	8.5 (240)	1	
PDM-81M-3.95G	3.6 - 4.3	20	0.8	6°	0.4	1.35:1	1.35:1	12.0 (335)	2	
PDM-81M-6G	4.0 - 8.0	20	0.8	6°	0.8	1.30:1	1.35:1	8.5 (240)	1	
PDM-81M-13G	8.0 - 18.0	15	2.0	6°	0.6	1.60:1	1.50:1	6.5 (180)	3	

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	K
1	5.200	2.450	.380	4.950	.125	.105	.480	1500	.500	.600
	132.08	62.23	9.65	125.73	3.18	2.67	12.19	38.10	12.70	15.24
2	5.200	3.500	.380	5.000	.100	.105	1800	—	.500	.600
	132.08	88.90	9.65	127.00	2.54	2.67	45.72		12.70	15.24
3	4.000	2.400	.380	3.800	.100	.105	.300	1800	.250	.500
	101.60	60.96	9.65	96.52	2.54	2.67	7.62	45.72	6.35	12.70

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

GENERAL SPECIFICATIONS

Impedance:	50 Ω nom.
CW Input Power with:	
VSWR _{out} of:	1.2:1 30 W
VSWR _{out} of:	2.0:1 10 W
VSWR _{out} of:	∞ 1 W
Temperature Range:	-55° to +85°C

General Notes:

1. The PDM-81M-G series eight-way Power Divider/Combiners covers the band from 2 to 18 GHz in four standard models with and other special models for specific, optional frequency ranges. Each unit uses a multi-section stripline Wilkinson design providing high isolation and low VSWR.
2. For applications below 2 GHz, Merrimac offers a complete line of lumped element power dividers found elsewhere in this catalog.
3. Many models are available from catalog stock for fast delivery.

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