

PDM-45R SERIES – 0° POWER DIVIDERS/COMBINERS

TECHNICAL FEATURE

FEATURES

- 0.5 to 26.5 GHz
- Extremely Wide Instantaneous BW
- Uniform Phase & Amplitude Balance
- SMA

| PRINCIPAL SPECIFICATIONS | | | | | | | | | | | |
|---------------------------------|------------------|---------------------|--------------------------|------------------|--------------------------|----------------|-----------------|----------------------------------|-------------------------|------------------|--|
| Model Number | Freq. Range, GHz | Isolation, dB, Min. | Insertion Loss, dB, Max. | Phase Bal., Max. | Amplitude Bal., dB, Max. | VSWR, Max., In | VSWR, Max., Out | CW Input Power, Max., with 1.2:1 | VSWR _{out} , ∞ | Outline Dwg Ref. | |
| PDM-45R-9.2G | 0.5 - 18.0 | 16 | 4.0 | 10° | 1.0 | 1.70:1 | 1.45:1 | 30 W | 1 W | 6 | |
| PDM-45R-16G | 6.0 - 26.5 | 15 | 2.1 | 10° | 0.5 | 1.70:1 | 1.60:1 | 30 W | 1 W | 5 | |

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 |
|---------|----------------|-----------------|---------------|--------------|----------------|---------------|----------------|--------------|----------------|
| 5 | 2.750 69.85 | 1.500 38.10 | .384 9.75 | .192 4.88 | 1.375 34.92 | .625 15.88 | 1.250 31.75 | .090 2.29 | 2.570 65.28 |
| 6 | 3.500 88.90 | 8.750 222.25 | .500 12.70 | .250 6.35 | 1.750 44.45 | .980 24.89 | 1.960 49.78 | .156 3.96 | 3.188 80.98 |

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

| OUTLINE | K | L | M | N | P | WT. OZ. (G) |
|---------|----------------|-----------------|--|-----------------|---------------|-------------|
| 5 | .750 19.05 | — | .103/.108 (2.62/2.74) DIA. THRU, 2 HOLES | — | .500 12.70 | 4.0 (113) |
| 6 | 1.125 28.58 | 7.625 193.68 | 1.34/ 1.54 (3.40/3.91) DIA. THRU, 6 HOLES | 4.375 111.12 | .520 13.21 | 20.0 (565) |

GENERAL SPECIFICATIONS

| | |
|------------------------|----------------|
| Impedance: | 50 Ω nom. |
| Operating Temperature: | – 55° to +85°C |

General Notes:

1. The PDM-45R series of 4-way, In-Phase Power Dividers/Combiners covers 0.5 to 26.5 GHz. Each circuit uses a specially developed stripline design providing high isolation and low VSWR over broad operating bands.
2. The stripline circuits are encased in a miniature machined housing that minimizes moding and provides an effective RF shield.
3. These units are generally available from catalog stock for fast delivery.

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