

PDP-2N SERIES – 0° POWER DIVIDERS/COMBINERS

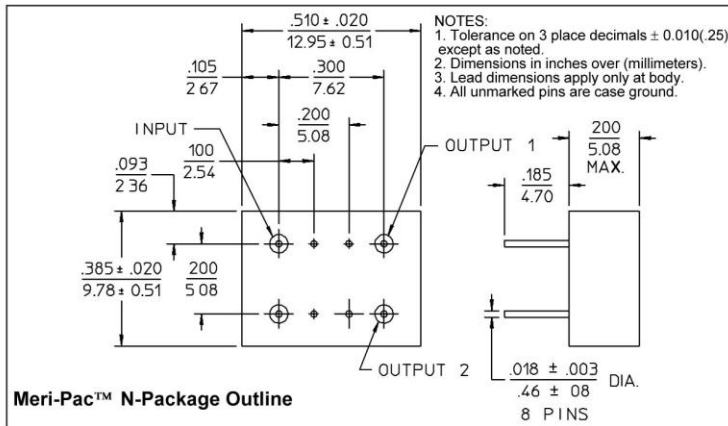
TECHNICAL FEATURE

FEATURES

- 50 kHz to 3000 MHz
- 2-way
- Hermetic
- Low Insertion Loss
- Meri-Pac PC Mount for Auto-Insertion

PRINCIPAL SPECIFICATIONS													
Model Number	Frequency Range MHz	Freq. Perform., MHz	Isolation, dB,		Insertion Loss, dB,		Phase Balance,		Amplitude Bal., dB,		VSWR, (In/Output)		Input Power* Max.
			Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
PDP-2N-50	.05 - 100	.05 - 100	30	35	0.7	0.4	2°	1°	0.15	0.1	1.3:1	1.15:1	1 W
PDP-2N-100	2 - 200	2 - 10	25	30	0.5	0.25	2°	1°	0.15	0.1	1.3:1	1.15:1	1 W
		10 - 200	30	35	0.5	0.25	2°	1°	0.15	0.1	1.3:1	1.15:1	
PDP-2N-250	10 - 500	10 - 500	25	30	0.7	0.4	2°	1°	0.2	0.1	1.3:1	1.2:1	1 W
PDP-2N-550	30 - 1000	30 - 1000	20	25	1.0	0.5	3°	1°	0.2	0.1	1.4:1	1.2:1	1 W
PDP-2N-1000	20 - 2000	20-1000	20	25	1.1	0.7	4°	2°	0.3	0.2	1.5:1	1.3:1	250 mW
		1000-1500	18	20	1.3	1.0	6°	3°	0.4	0.3	1.6:1	1.4:1	
		1500-2000	12	15	2.0	1.5	8°	4°	0.6	0.5	1.8:1	1.5:1	
†PDP-2N-****B	1500-3000	±10% f ₀	15	20	1.0	0.5	5°	2°	0.5	0.2	1.7:1	1.3:1	1 W

†For complete Model Number replace **** with desired center frequency, f₀ in MHz *CW input power when used as divider with 1.2:1 VSWR_{out}



GENERAL SPECIFICATIONS

Impedance: 50 Ω nom.
 Internal Load Dissipation: 50 mW, max.
 Weight, nominal: 0.13 oz. (3.2 g)
 Operating Temperature: -55° to +85°C

AVAILABLE OPTIONS

Up to 16-Way division
 Close tolerance amplitude & phase balance
 Connectorized, TO-5 and flatpack versions

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General Notes:

1. The PDP-2N series covers 50 kHz to 2.0 GHz with the special "B" series narrowband units extending coverage to 3 GHz.
2. The Meri-Pac™ package housing these 2-way Power Dividers/Combiners is ideally suited to airborne and space applications where inherent package reliability and hermeticity are critical.
3. Below 2 GHz, the PDP-2N series uses lumped element circuits designed to reduce the size while preserving important electrical characteristics.

