

# PDZ-2B SERIES – 0° POWER DIVIDERS/COMBINERS

## TECHNICAL FEATURE

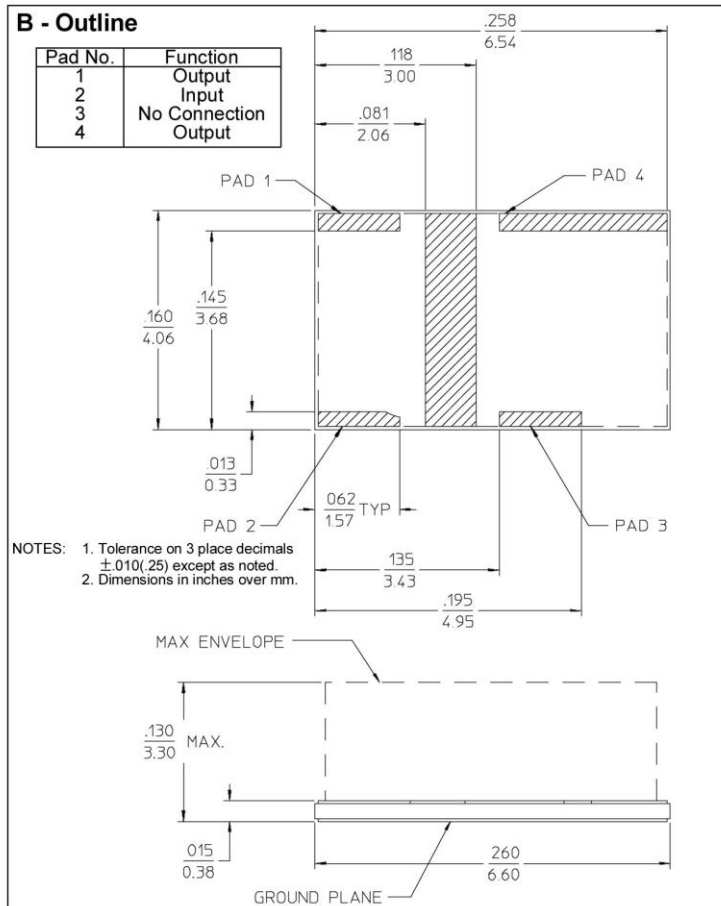
### FEATURES

- 1 to 1800 MHz
- 2-way
- Broadband
- Low Profile, CaseFree Package
- Low Weight <0.01 oz.

### PRINCIPAL SPECIFICATIONS

Model Number	Frequency Range, MHz	Frequency Performance, MHz	Isolation, dB,		Insertion Loss, dB,		Amplitude Balance, dB,		Phase Balance,		VSWR	
			Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.
PDZ-2B-50	1 - 100	1 - 500	25	30	0.7	0.4	0.2	0.1	2°	1°	1.3:1	1.2:1
PDZ-2B-1000	50 - 1800	50 - 1000	20	24	0.8	0.5	0.4	0.3	4°	2°	1.5:1	1.3:1
		1000 - 1800	15	20	2.0	1.5	0.5	0.4	8°	4°	1.8:1	1.6:1

### B - Outline



### GENERAL SPECIFICATIONS

Coupling:	- 3.0 dB
Impedance:	50 $\Omega$ nom.
CW Input Power:	250 mW max. (When used as divider with 1.2:1 VSWR <sub>out</sub> )
Internal Load Dissipation:	50 mW max.
Weight, nominal:	0.007 oz. (200 mg)
Operating Temperature:	-55° to +85°C

### General Notes:

1. The PDZ-2B series is a *CaseFree*, lumped element power divider designed for size and process compatibility with MMIC and similar devices. The low 0.130" profile allows it to be mounted into a low profile hermetic package with other miniature components using silver epoxy, solder or wire bonding attachment methods.
2. The basic power divider is a hybrid junction with one of its ports internally terminated. For in-phase power division, such as the PDZ-2B series, the E port is internally terminated.
3. These units employ a broadband, high isolation design using lumped element technology mounted on a metallized alumina substrate. Similar units are available in surface mount and other similar packages.

27Mar96

### Crane Aerospace & Electronics

Microwave Solutions – Merrimac Industries  
 41 Fairfield Place, West Caldwell, NJ 07006  
 + 1.973.575.1300 ext. 1309 • [mw@crane-eg.com](mailto:mw@crane-eg.com)  
[www.craneeae.com/mw](http://www.craneeae.com/mw)

PDZ2B.doc. This revision supersedes all previous releases. All technical information is believed to be accurate, but no responsibility is assumed for errors. We reserve the right to make changes in products or specifications without notice. Copyright © 2013 Crane Electronics, Inc. All rights reserved.

