# PDG-02A SERIES – 0° POWER DIVIDERS/COMBINERS

## **TECHNICAL FEATURE**

### **FEATURES**

- 10 to 1000 MHz
- 2-way
- Broadband
- Minimal Size and Weight
- Low 0.2" Profile
- Surface Mount

		PRINCIPAL SPECIFICATIONS									
Model Number	Frequency Range, MHz	Isolation, dB,		Insertion Loss, dB,		Amplitude Balance, dB,		Phase Balance,		VSWR	
		Min.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.	Max.	Тур.
PDG-02A-250	10 - 500	20	25	1.0	0.5	0.2	0.1	2°	1°	1.5:1	1.3:1
PDG-02A-500	50 - 1000	18	25	1.5	1.0	0.3	0.2	4°	2°	1.5:1	1.3:1

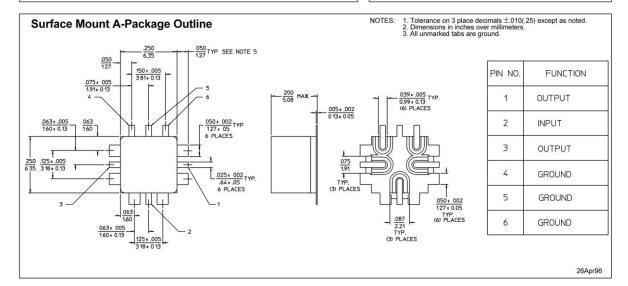
#### General Notes:

1. The basic power divider is a hybrid junction with one of its ports internally terminated. For in-phase power division, such as provided in the PDG-02A series, the E port is internally terminated.

 Careful design and construction insure phase and amplitude uniformity between units. Additionally, these units provide excellent transfer phase linearity and amplitude flatness. These characteristics are of critical importance to the successful design of modern multi-channel receivers, transmitters and antenna systems.
Merrimac Power Dividers/Combiners are available in a variety of packages to DESC 2012 Combiners are available in a variety of packages to DESC 2012 Combiners are available in a variety of packages to

3. Merrimac Power Dividers/Combiners are available in a variety of packages to suit most requirements. The surface mounted versions in the PDG-02A series use lumped element design. This approach is particularly appropriate for those applications where small size is important.

GENERAL SPECIFICATIONS								
Impedance:	50 $\Omega$ nom.							
Coupling (Theoretical):	– 3.0 dB							
CW Input Power: 250 mW max. (When used as divider with 1.2:1 VSWR Internal Load Dissipation: 28 mW max.								
Weight, nominal:	0.02 oz. (0.5 g)							
Operating Temperature:	– 55° to + 85°C							



#### **Crane Aerospace & Electronics**

Microwave Solutions – Merrimac Industries 41 Fairfield Place, West Caldwell, NJ 07006

+ 1.973.575.1300 ext. 1309 • <u>mw@crane-eg.com</u> www.craneae.com/mw



PDG02A.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.