

PDG-02B SERIES – 0° POWER DIVIDERS/COMBINERS

TECHNICAL FEATURE

FEATURES

- 10 to 2000 MHz
- 2-way
- Broadband
- Low Insertion Loss
- Hi-Rel Hermetic Package
- SMD

<i>PRINCIPAL SPECIFICATIONS</i>												
Model Number	Frequency Range, MHz	Frequency Performance, MHz	Isolation, dB,		Insertion Loss, dB,		Phase Balance,		Amplitude Balance, dB,		VSWR In/Output	
			Min.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.
PDG-02B-250	10 - 500	10 - 500	25	30	0.7	0.4	2°	1°	0.2	0.1	1.3:1	1.2:1
†PDG-02B-255	10 - 500	10 - 500	25	30	0.7	0.4	2°	1°	0.2	0.1	1.3:1	1.2:1
†PDG-02B-500	20 - 1000	20 - 500	20	25	0.5	0.3	2°	1°	0.3	0.1	1.4:1	1.3:1
		500 - 1000	18	20	1.0	0.5	3°	2°	0.3	0.2	1.6:1	1.3:1
PDG-02B-1000	100 - 2000	100 - 2000	15	20	1.8	1.0	5°	3°	0.5	0.2	1.6:1	1.3:1
†PDG-02B-1005	100 - 2000	100 - 2000	15	20	1.8	1.0	5°	3°	0.5	0.2	1.6:1	1.3:1

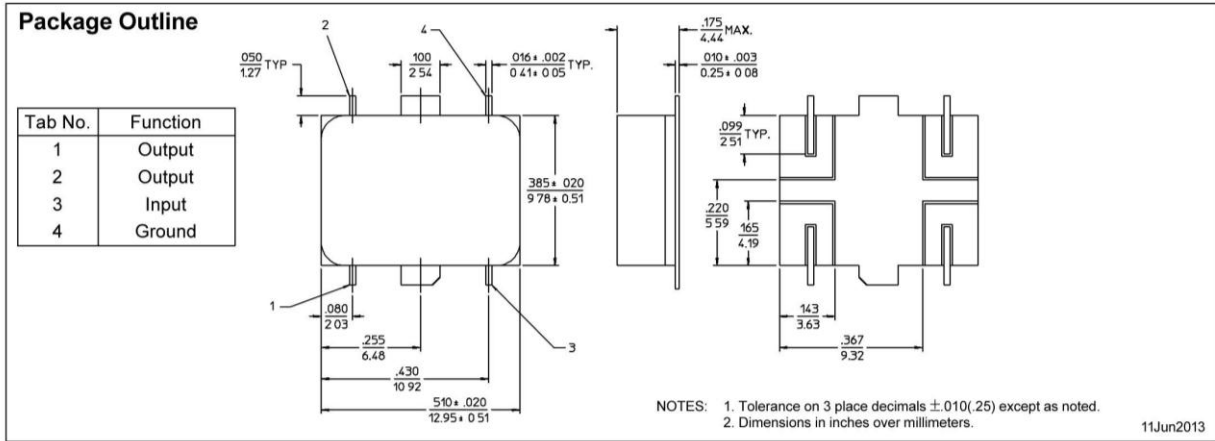
†Unit designed for IR or Vapor Phase Attachment

General Notes:

1. The PDG-02B series of surface mount two-way Power Dividers/ Combiners, covers a broad frequency range of 10 to 2000 MHz using a special lumped element design to reduce the size while maintaining high performance.
2. The surface mount housing has been designed for airborne and space applications where inherent package reliability and hermeticity are critical.

GENERAL SPECIFICATIONS

Coupling: – 3.0 dB nom.
 Impedance: 50 Ω nom.
 CW Input Power : 1 Watt max.
(When used as divider with 1.2:1 VSWR_{out})
 Internal Load Dissipation: 50 mW, Internal
 Weight, nominal: 0.07 oz. (2 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 • mw@crane-eg.com
www.craneeae.com/mw



PDG02B.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.