# PDG-3B Series 0° POWER DIVIDERS / COMBINERS

***1 to 1000 MHz / 3-Way / Broadband / Low Insertion Loss / Hi-Rel Hermetic Package / SMD***

## *PRINCIPAL SPECIFICATIONS*

| Standard Model Number for Vapor Phase & IR Insertion | Freq. Range, MHz | Freq. Perform., MHz | Isolation, dB, Min. | Isolation, dB, Typ. | Insertion Loss, dB, Max. | Insertion Loss, dB, Typ. | Phase Balance, Max. | Phase Balance, Typ. | Amplitude Balance, dB, Max. | Amplitude Balance, dB, Typ. | VSWR In/Output Max. | VSWR In/Output Typ. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PDG-3B-150 | 1 - 300 | 2 - 200 | 28 | 32 | 1.0 | 0.8 | 3° | 2° | 0.3 | 0.15 | 1.35:1 | 1.2:1 |
| | | 1 - 300 | 20 | 25 | 1.2 | 1.0 | 4° | 3° | 0.4 | 0.2 | 1.6:1 | 1.3:1 |
| PDG-3B-530 | 50 - 1000 | 50 - 800 | 20 | 25 | 1.5 | 0.8 | 8° | 3° | 0.5 | 0.3 | 1.5:1 | 1.3:1 |
| | | 800 - 1000 | 20 | 25 | 3.0 | 1.5 | 10° | 5° | 0.7 | 0.5 | 1.7:1 | 1.4:1 |

**General Notes:**

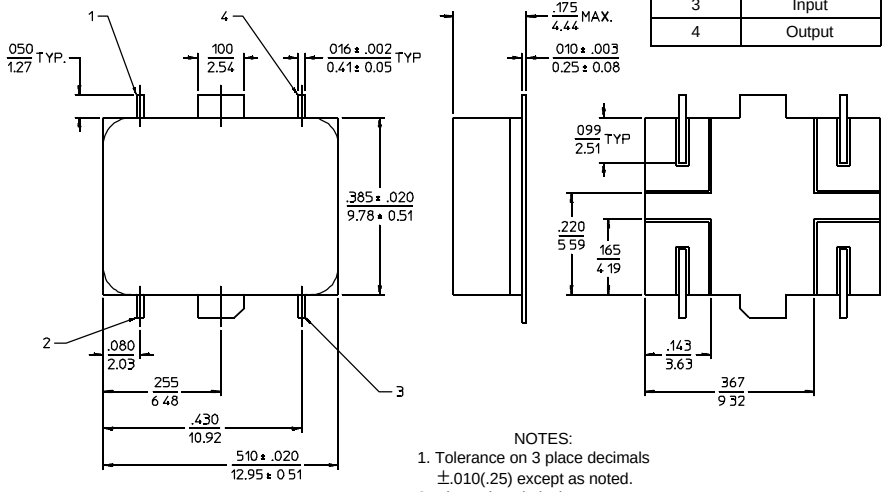
1. The PDG-3B series of 3-way Power Dividers/ Combiners covers 1 to 1000 MHz using lumped element circuits to minimize size while providing high performance. The surface mount housing is suited to applications where inherent package reliability and hermeticity are critical. All units are fully welded.

## *GENERAL SPECIFICATIONS*

| | |
|---|---|
| Coupling, theoretical: | – 4.8 dB nom. |
| Impedance: | 50 Ω nom. |
| Internal Load Dissipation: | 50 mW max. |
| CW Input Power : | 1 Watt max. (When used as divider with 1.2:0 $VSWR_{out}$) |
| Operating Temp. Range: | – 55° to + 85°C |

**Package Outline**

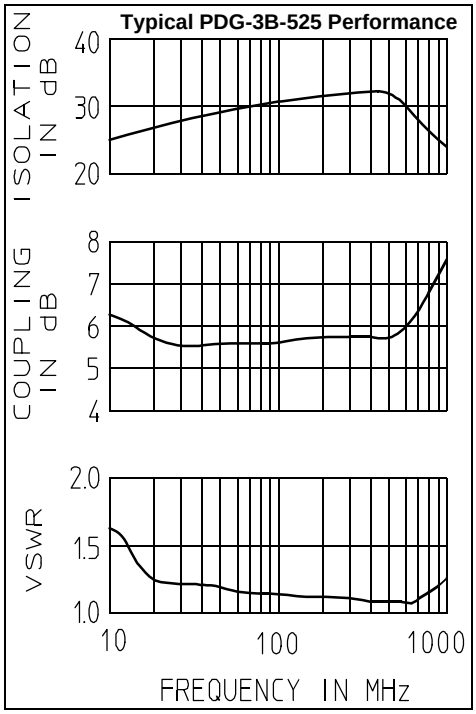
| Tab No | Function |
|---|---|
| 1 | Output |
| 2 | Output |
| 3 | Input |
| 4 | Output |




NOTES:
1. Tolerance on 3 place decimals ±.010(.25) except as noted.
2. Dimensions in inches over mm (to nearest 0.01 mm).
3. All unnumbered tabs are case ground.
4. Weight, nominal: 0.15 oz. (4.3 g)

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**Typical PDG-3B-525 Performance**




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