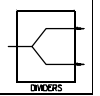


PDZ-2B Series 0° POWER DIVIDERS / COMBINERS

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

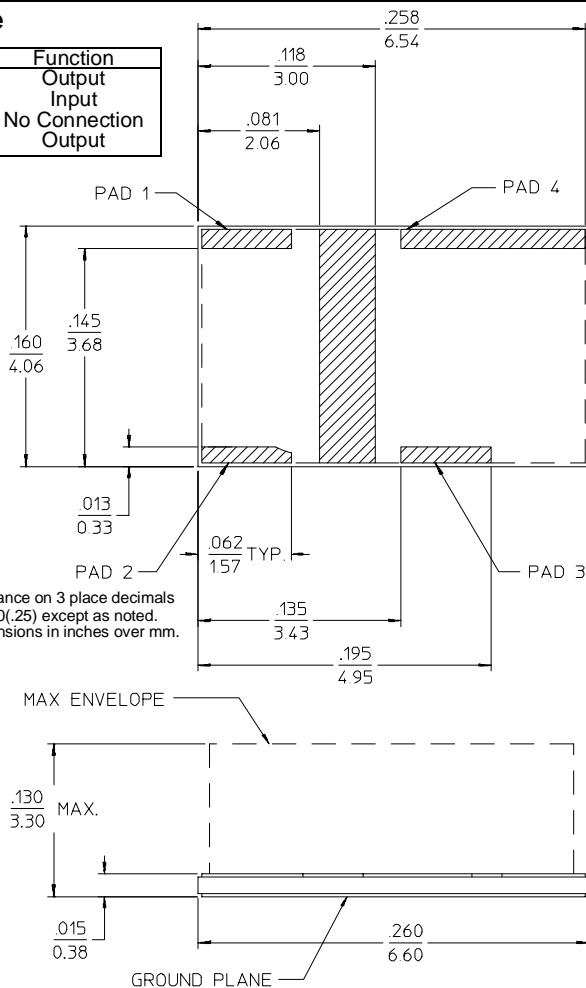


PRINCIPAL SPECIFICATIONS

| 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

| Pad No. | Function |
|---------|---------------|
| 1 | Output |
| 2 | Input |
| 3 | No Connection |
| 4 | Output |



NOTES: 1. Tolerance on 3 place decimals ±.010(.25) except as noted.
2. Dimensions in inches over mm.

GENERAL SPECIFICATIONS

Coupling: - 3.0 dB
 Impedance: 50 Ω nom.
 CW Input Power: 250 mW max.
 (When used as divider with 1.2:1 VSWR_{out})
 Internal Load Dissipation: 50 mW max.
 Weight, nominal: 0.007 oz. (200 mg)
 Operating Temperature: -55° to +85°C

General Notes:

- 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.
- 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.
- 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.

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