

O° Power Divider / Combiner PDK-25R-25GS0



TECHNICAL FEATURE

FEATURES

18 - 32 GHz

2 - Way

Space Qualified

| PRINCIPAL SPECIFICATIONS | | | | | | | | | | |
|--------------------------|---------------------------|-------------------------|-------------------------------|--------------------------|---------------------------------|-------|---------------------------------|---|-------------------------------|-----|
| Model Number | Frequency Range GHz | Isolation dB Min. | Insertion Loss, dB Max. | Phase Balance Max. | Amplitude Balance dB Max. | | SWR ¹ Iax. Out | | / Input, V d VSWR 2.0:1 | |
| PDK-25R-25GSQ | 18 - 32 | 15 | 1.5 | 10° | 0.5 | 1.6:1 | 1.6:1 | 5 | 2 | 0.5 |

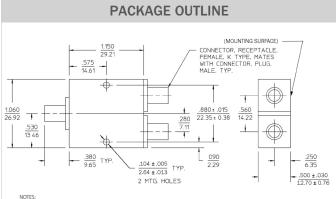
GENERAL NOTES

The PDK-25R-25GSQ In-Phase Power Divider/Combiner covers 18-32 GHz. It uses a wideband stripline design which provides high isolation and low VSWR. This unit has been designed, manufactured, and tested per Merrimac document CENG-0001, "Standard Design Requirements for Space Qualified Devices."

Operating Temperature.....-55° to +85° C 1. Measure with a source and load VSWR = 1.05:1. 2. 500 mW total input as a combiner (250 mW per input);

PERFORMANCE NOTES

500 mW input power as a divider with open/short circuit outputs; 2 W input power as a divider into output load VSWR <2:1.



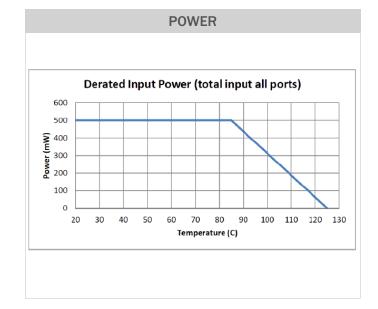
- 1. Dimensions are in inches over millimeters; tolerance on 3 place decimals ± .020" (± 0.51 mm), except as noted.
- 2. Weight is 45 grams maximum.
- 3. Connectors are SMK Female.
- Case is 6061-16, 6061-1651, or 6061-76511 aluminum alloy per AMS-QQ-A-200, AMS-QQ-A-225, or AMS-QQ-A-250 (ASTM B209, ASTM B211, and ASTM B221 are acceptable equivalents).

Body: Aeroglaze Z306 (black paint), excluding connector threads, areas around mounting and vent holes and Mounting surface and masked areas: Chemical Film per MIL-DTL-5541, Class 3, Type I.

Microwave Solutions

Merrimac Industries 41 Fairfield Place, West Caldwell, NJ 07006

+ 1 973-575-1300, 191309 info@craneae.com www.craneae.com



Page 1 of 1 PDK-25R-25GSQ Rev. 2, 11/02/2022

DS_Power Divider_PDK25R25GSQ_11022022.indd. 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 © 2022 Crane Electronics, Inc. All rights reserved.