



# 0° Power Divider / Combiner

## PDK-21-15.5G SQ



### TECHNICAL FEATURE

### FEATURES

- 12 - 19 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.	VSWR <sup>1</sup> Max.		CW Input, W, <sup>2</sup> Load VSWR out		
						In	Out	1.2:1	2.0:1	∞
PDK-21-15.5G SQ	12 - 19	18	1.0	±5°	0.25	1.5:1	1.5:1	5	2	0.5

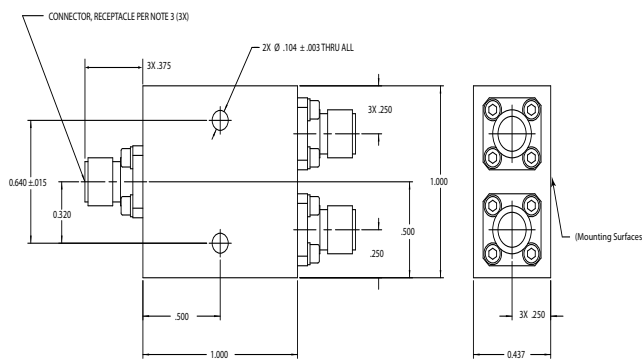
### GENERAL NOTES

1. The PDK-21-15.5G SQ In-Phase Power Divider/Combiner covers 12-19 GHz. It uses a conventional Wilkinson 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."

### PERFORMANCE NOTES

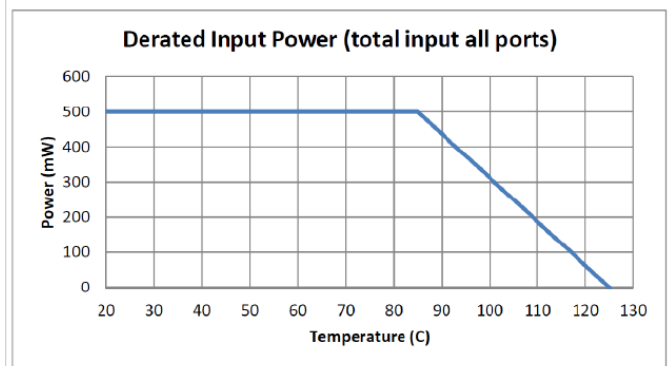
- Impedance ..... 50 Ω nom.  
 Operating Temperature..... -55° to +85° C
1. Measure with a source and load VSWR = 1.05:1.
  2. 500 mW total input as a combiner (250 mW per input); 500 mW input power as a divider with open/short circuit outputs; 2 W input power as a divider into output load VSWR <2:1.

### PACKAGE OUTLINE



- NOTES:
1. Dimensions are in inches; tolerance on 3 place decimals ± .020", except as noted.
  2. Weight is 34 grams maximum.
  3. Connectors are SMA Female.
  4. Case is 6061-T6, 6061-T651, or 6061-T6511 aluminum alloy per AMS-QQ-A-200, AMSQQ-A-225, or AMS-QQ-A-250 (ASTM B209, ASTM B211, and ASTM B221 are acceptable equivalents), except the cover shall be 4047 aluminum per AMS4185.

### POWER



Microwave Solutions  
 Merrimac Industries  
 41 Fairfield Place,  
 West Caldwell, NJ 07006  
 + 1 973-575-1300, 191309  
 info@craneae.com  
 www.craneae.com

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 PDK-21-15.5G SQ  
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