

### COUPLER CSDZ-10Z-2.1G SQ



## TECHNICAL FEATURE FEATURES

- 2.0 2.3 GHz
- Low Loss/ Low VSWR

- Multiple Plating Options
- Space Qualified

- Surface Mount
- Tape & Reel

PRINCIPAL SPECIFICATIONS									
Model Number	Frequency Range GHz	<b>Mean</b> Coupling dB	Insertion Loss dB Max.	Frequency Sensitivity dB Max.	VSWR, Max. All Ports	Directivity dB Min.	Input Power Max.		
CSDZ-10Z-2.1G SQ	2.0 - 2.3	10.0 ± 1.0	0.2	±0.3	1.25:1	17	25 Watts		

#### **GENERAL NOTES**

The Multi-Mix® CSDZ series provides 10 dB coupling at 2.0 - 2.3 GHz. The CSDZ series features accurate coupling factors, low VSWR, and high directivity. The CSDZ series is ideal for use in RF sampling networks and control circuitry in high power applications.

CSDZ directional couplers are based on fusion bonded multilayer stripline structures. The fusion bonding process yields homogeneous monolithic dielectric structures with reliability, ruggedness, and electrical and thermal performance that are superior to conventional adhesive bonding techniques.

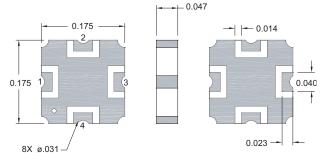
Parts, materials and processes are in accordance with Merrimac document CENG-0001 "Standard Design Requirements for Space Qualified Devices".

#### **GENERAL SPECIFICATIONS**

Size	.0.175" x 0.175" x 0.047"
Weight, max	0.002 oz. (0.05 g)
RF Interface	Leadless Surface Mount
Operating Temperature	55° to +95° C

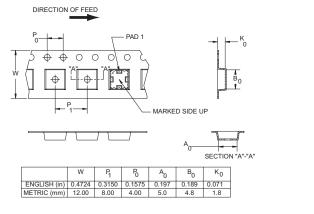
TRUTH TABLE								
	1	2	3	4				
1	Input	Coupled	Isolated	Output				
2	Coupled	Input	Output	Isolated				
3	Isolated	Output	Input	Coupled				
4	Output	Isolated	Coupled	Input				

# PACKAGE OUTLINE / TAPE & REEL ORIENTATION DIRECTION OF FEED



NOTES: Dimensional tolerance unless otherwise specified shall be: +/-.005" Thickness tolerance: +/-.005"

Individual units will not be marked, but tape and reel packaging will include the Merrimac part # and date code. Individual units will have an index mark etched as shown on the data sheets.



Microwave Solutions

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U.S. Patent 6,099,677 and other Patents Pending.

DS\_Coupler\_CSDZ10Z21GSQ\_021524.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 © 2021 Crane Electronics, Inc. All rights reserved.

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