DIRECTIONAL COUPLER

CSC-30-4.2G SQ

Microwave Solutions

TECHNICAL FEATURE

FEATURES

- Space Qualified
- 3.9 - 4.5 GHz

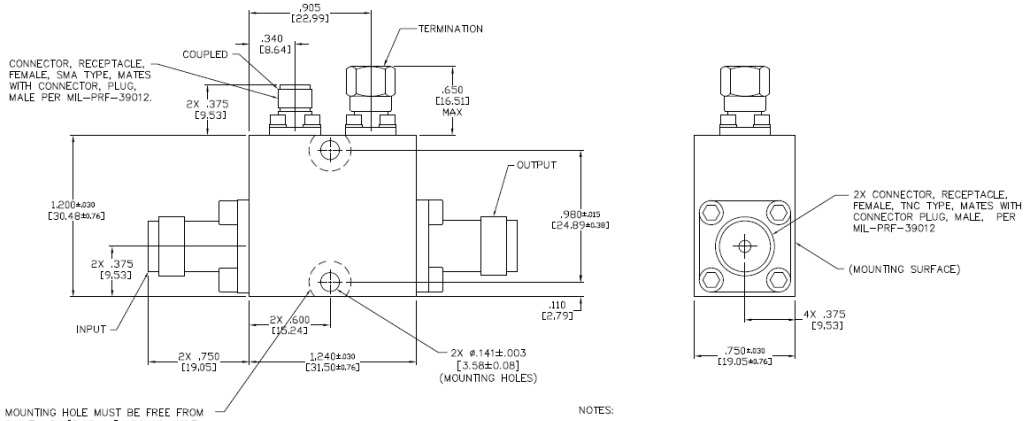
PRINCIPAL SPECIFICATIONS

Model Number	Frequency Range GHz	Frequency Sensitivity dB Max.	Coupling dB	Insertion Loss, dB Max.	Directivity dB Min.	VSWR Main Max.	VSWR Coupled Max	CW Power Rating Main Line	Weight Max.
CSC-30-4.2G SQ	3.9 - 4.5	+ / - 0.2	30 +/- 1.0	0.25	16	1.22:1	1.22:1	60 Watts	68.3 g.

TECHNICAL DESCRIPTION / APPLICATION

The CSC-30-4.2G SQ directional coupler covers 3.9 - 4.5 GHz with a stripline design. This offers low transmission loss and excellent VSWR. This unit has been designed, manufactured and qualified per Merrimac document CENG-0001, "Standard Design Requirements for Space Qualified Devices."

PACKAGE OUTLINE



NOTES:

1. TOLERANCE ON 3 PLACE DECIMALS ±.020 [.51mm]. EXCEPT WHERE NOTED.
2. MAX. IS LARGEST DIMENSION ALLOWED.
3. DIMENSIONS = INCHES [mm]
4. METRIC EQUIVALENTS ARE TO THE NEAREST .01mm
5. EXTERNAL FINISH:

   EXTERIOR SURFACES: FLAT BLACK POLYURETHANE COATING AEROGLAZE Z306 (EXCEPT MOUNTING SURFACE TOP MOUNTING HOLE AREA AND AREA AROUND VENT HOLES AND VENT SLOT).
   MOUNTING AND UNPAINTED SURFACE FINISH: CHEMICAL FILM PER MIL-DTL-5541, CLASS 3.
   CONNECTOR FINISH: PASSIVATED.
6. WEIGHT: 2.41 OZ. [68.3g] MAX.

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DS_Directional Coupler_CSC3042GSQ_070924.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 © 2024 Crane Electronics, Inc. All rights reserved.