

90° DIVIDERS/ COMBINERS QHK-2-20G SQ



TECHNICAL FEATURE

FEATURES

- · Space Qualified
- 19.7 20.2 GHz

· Quadrature Hybrid, SMA

PRINCIPAL SPECIFICATIONS									
Model Number	Frequency Range GHz	Isolation dB Min.	Insertion Loss, dB Max.	Amplitude Balance dB Max.	VSWR Max. In	Phase Balance dB Max.	CW Input Power	Impedance Nom.	Operating Temperature
QHK-2-20G SQ	19.7 - 20.2	18	0.7	0.6	1.3:1	90° ± 5°	5 W	50 OHM	-55° to +85°C

GENERAL NOTES

The QHK-2-20G SQ Quadrature Hybrid Divider/Combiner covers 19.7 - 20.2 GHz. It uses a rugged stripline design which provides high isolation and low VSWR. This unit has been designed, manufactured and qualified per Merrimac document CENG-0001, "Standard Design Requirements for Space Qualified Devices".

PACKAGE OUTLINE 1.000±.030 [25.40±0.76] 4X CONNECTOR, RECEPTACLE, FEMALE, SMK TYPE, MATES WITH CONNECTOR, PLUG, MALE PER MIL-PRF-39012 [12.70] 2X .250 2X Ø.104±.003 NOTES: [6.35] [ø2.64±0.08] TOLERANCE ON 3 PLACE DECIMALS ±.020 [.51mm]. EXCEPT WHERE NOTED. MAX. IS LARGEST DIMENSION ALLOWED. DIMENSIONS = INCHES (MOUNTING HOLES) 4X .375 [9.53] [mm] METRIC EQUIVALENTS ARE TO THE NEAREST .01mm 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: 0.88 OZ. [259] MAX. [8.26] Ф [16.51±0.76] (MOUNTING SURFACE) MOUNTING HOLE MUST BE FREE FROM PAINT Ø.31 [7.87mm] AROUND HOLE, MASKING DIA. MUST BE CONCENTRIC TO WITHIN .020 [.51mm] OF MTG. HOLE 4X .200 [2.79] [5.08] .400±.030 [10.16±.76] [19,81±0.38]

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 QHK-2-3.6G SQ Rev. -, 07/22/2024

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