QHF-2G Series – 90° Power Dividers/Combiners

TECHNICAL FEATURE

FEATURES

- 54 MHz to 2.0 GHz
- 1 kW Peak
- Moisture Sealed
- Reliable Stripline "Sandwich" Package
- Filmbrid

PRINCIPAL SPECIFICATIONS										
Model Number	Frequency Range, GHz	Isola di Min.	ition, B, Typ.	Insertion Loss, dB, Max.	Amplitude Bal., dB, Max.	Phase Tolerance	CW Input*, W	Weight oz .(g) Nom.	Case Style	
QHF-2312GG	.225400	23	30	0.30	0.9	90° ± 3°	100	.4 (11)	G	
QHF-2312GN	.225400	20	25	0.25	1.0	$90^{\circ} \pm 2^{\circ}$	200	.3 (8)	Ν	
QHF-2312GP	.225400	20	25	0.25	1.0	$90^{\circ} \pm 2^{\circ}$	200	.5 (14)	Р	
QHF-2375GF	.250500	25	30	0.25	1.0	$90^{\circ} \pm 2^{\circ}$	200	.5 (14)	F	
QHF-2-1.50GK	1.00 - 2.00	20	25	0.25	1.0	$90^{\circ} \pm 2^{\circ}$	200	.4 (11)	K	
*CW input power with 1.2:1 VSWR _{out}										

ENVIRONM	ENTAL QUAL	GENERAL SPECIFICATIONS		
Exposure	Method	Test Condition	Coupling:	– 3 dB nom.
Altitude* Humidity	105C 106D	В	Impedance:	50 Ω nom.
Thermal Shock	107D	Ā	VSWR:	1.1 typ., 1.2 max.
Life Test Vibration	108 201A	D	Peak Power:	1 kW max.
Mechanical Shock	213B	A	Terminals:	4 Solder Tabs
	214 ices must be sealed		Operating Temperature: Alternate Outlines:	– 55° to +85°C Optional
if device is to be used at rated peak power.			Allemale Oulines.	Optional

General Notes:

1. The QHF-2-G series consists of quadrature backward-wave hybrid couplers which use shielded stripline design techniques to cover octave bands in the frequency range 225 MHz to 2 GHz.

The Filmbrid[™] Sandwich Package is sealed under heat and pressure insuring the printed substrates and low-loss dielectric laminates are permanently bonded to minimize the effects of dirt and moisture and prevent separation when subjected to shock and vibration.
The QHF-2-G series is ideally suited for applications requiring high performance, inherent reliability and low cost. Special customized units are available for special bandwidth and frequency applications.

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