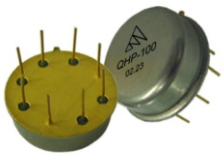
QHP-100

2 way 90° Power Combiner/Splitter



Features

- Low insertion loss, High isolation
- Perfect phase/Amplitude balance
- Low VSWR
- 50Ω impedance
- Hermetic TO-8H package
- Operating temperature range:-55℃～+85℃

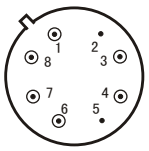
Specifications(measured in a 50Ω system T_A=-55℃～+85℃)

Parameter	Symbol	Unit	Guaranteed	Typical
Frequency Range	f_L～f_H	MHz	40～250	40～300
Coupling	Coupling	dB	----	-3
Insertion loss	I.L	dB	2.0(Max)	1.2
Isolation	Iso	dB	15 (Min)△	16
Phase Balance	△P	deg	7° (Max) △	4°
Amplitude Balance	△M	dB	1.5(Max)	0.8
VSWR	VSWR	----	1.8:1(Max)	1.5:1

"△" Measured at Tc=24±1℃

Absolute Maximum Ratings

Input power: 1W
Storage temp:+125℃



TO-8H

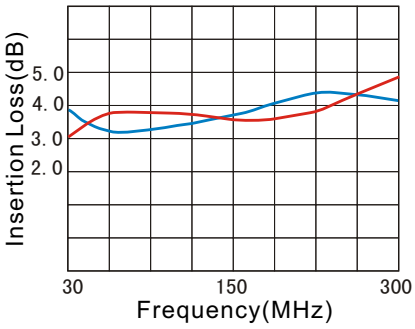
1.N/C 5.GND
2.GND 6.N/C
3.Input 7. Output(0°)
4.Isolation port connected to 50Ω load
8.Output(+90°)

Application Notes

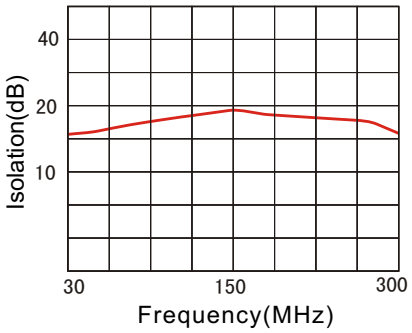
1.Input/output pins should be connected to 50Ω microstrip.
2.See assembly section for mounting information

Typical Performance

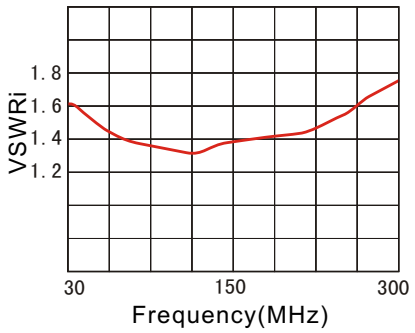
Insertion Loss vs. Frequency



Isolation vs. Frequency



VSWRi vs. Frequency



VSWRo vs. Frequency

