

90deg Hybrid Coupler SMA Connectors From 1GHz to 6GHz Rated at 30 Watts

Hybrid Coupler

- ◆ 90° Hybrid Coupler
- ◆ Low Insertion Loss
- ◆ Low Phase Balance
- ◆ Wide Frequency Range
- ◆ Excellent Reliability

The HRT-HC(1000/6000)-90S is a 90 degree hybrid coupler that operates from 1 to 6 GHz and can handle up to 30 Watts . This SMA hybrid coupler offers 15 dB Isolation and 1.4:1 max VSWR. The package interface uses SMA on all of the ports.


Electrical Specifications

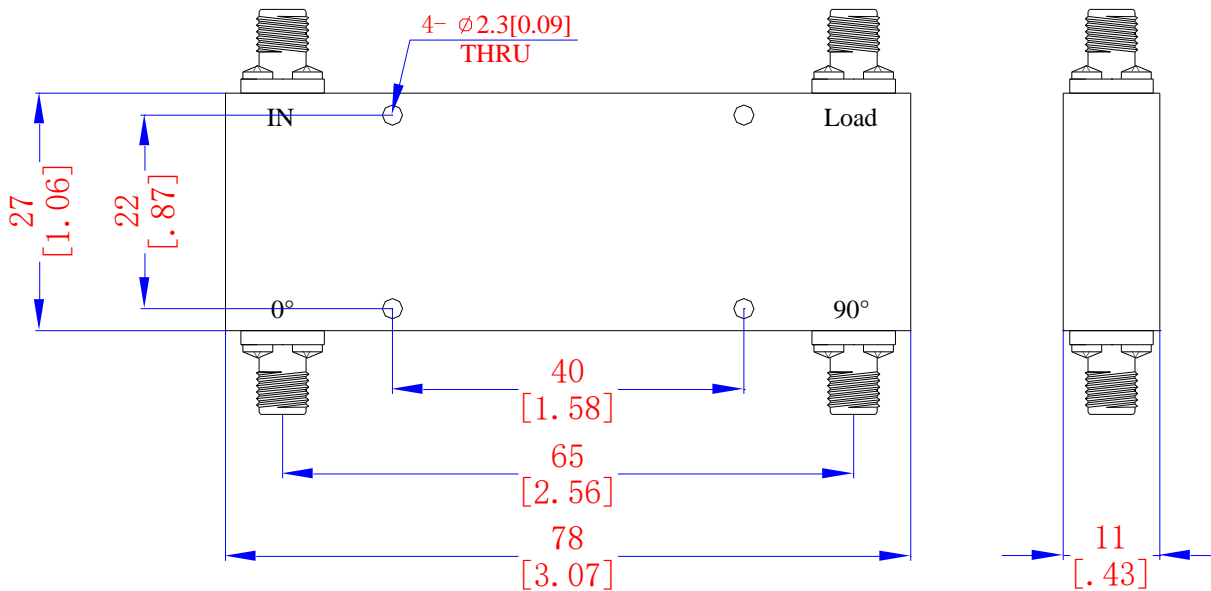
Parameters	Units		Specifications
Pass Band Frequency	MHz		1000-6000
Nominal Coupling	dB		3.0
Nominal Degree	deg		90
Insertion Loss (Excluding Nominal Coupling Loss)	dB	Max	1.2
VSWR	/	Max	1.4:1
Isolation	/	Min	15
Amp. Unbalance	dB	Max	±0.9
Phase Unbalance	Deg	Max	±6
Power Handling	30 Watts(Average Power)		
Electrical Specification Notes	Values at +25°C.		

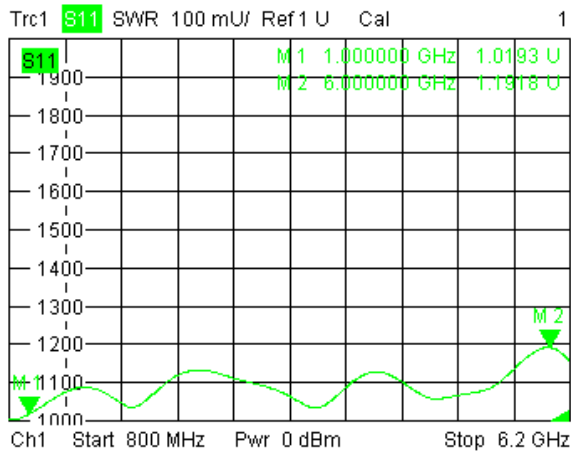
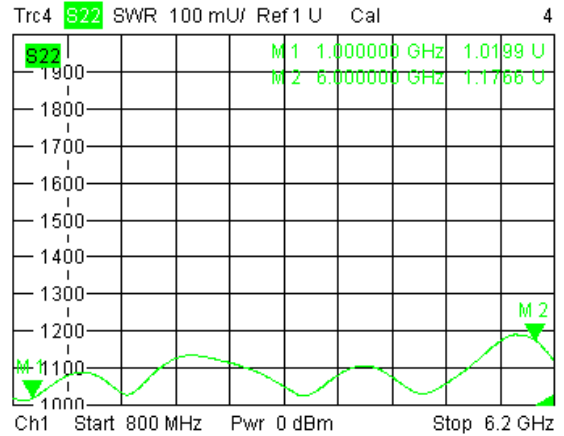
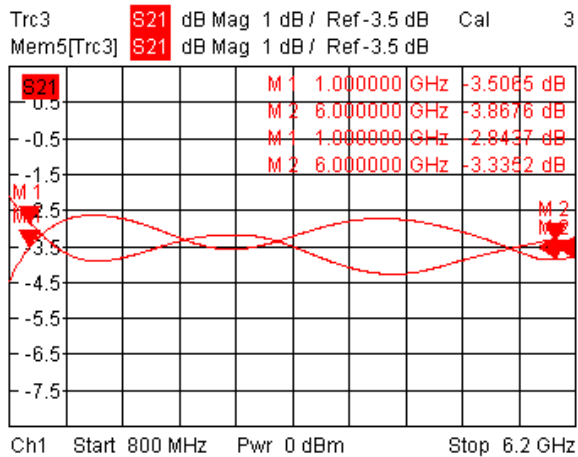
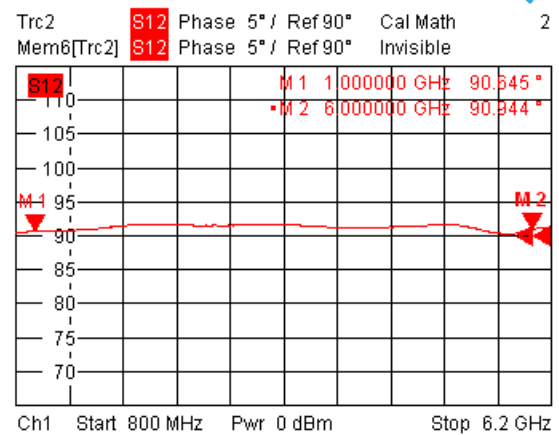
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Mechanical Specifications		Environmental Specification	
Parameter	Specification	Parameter	Specification
Input Connectors	SMA-Female (50Ω)	Operating Temp.	-40°C to +70°C
Output Connectors	SMA-Female (50Ω)	Storage Temp.	-55°C to +85°C
ROHS	Yes	Environment Class	TBD
Material	Aluminum (6061)	Altitude	30,000 ft.
Weight(Kg)	TBD		(Epoxy Sealed Controlled environment)
Surface Finish	Black Painted	Humidity	95%RH at 40°C
Shock	20G for 11msec half sine wave,3 axis both directions		
Note			

Outline Drawing:

All Dimensions in mm (inches)
Outline Tolerances $\pm 0.3(0.012)$



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Input VSWR

Output VSWR

Loss & Amplitude Unbalance

Phase Unbalance

Isolation
