

180deg Hybrid Coupler SMA Connectors From 6GHz to 26.5GHz Rated at 30 Watts



Hybrid Coupler

- ◆ 180° Hybrid Coupler
- ◆ Low Insertion Loss
- ◆ Low Phase Balance
- ◆ Wide Frequency Range
- ◆ Excellent Reliability

The HRT-HC(6000/26500)-180S is a 180 degree hybrid coupler that operates from 6 to 26.5 GHz and can handle up to 30 Watts . This SMA hybrid coupler offers 8 dB Isolation and 1.8:1 max VSWR. The package interface uses SMA on all of the ports.



Electrical Specifications

Parameters	Units		Specifications
Pass Band Frequency	MHz		1000-18000
Nominal Coupling	dB		3.0
Nominal Degree	deg		180
Insertion Loss (Excluding Nominal Coupling Loss)	dB	Max	2.8
VSWR	/	Max	1.8:1
Isolation	/	Min	8
Amp. Unbalance	dB	Max	±1.2
Phase Unbalance	Deg	Max	±12
Power Handling	30 Watts(Average Power)		
Electrical Specification Notes	Values at +25°C.		

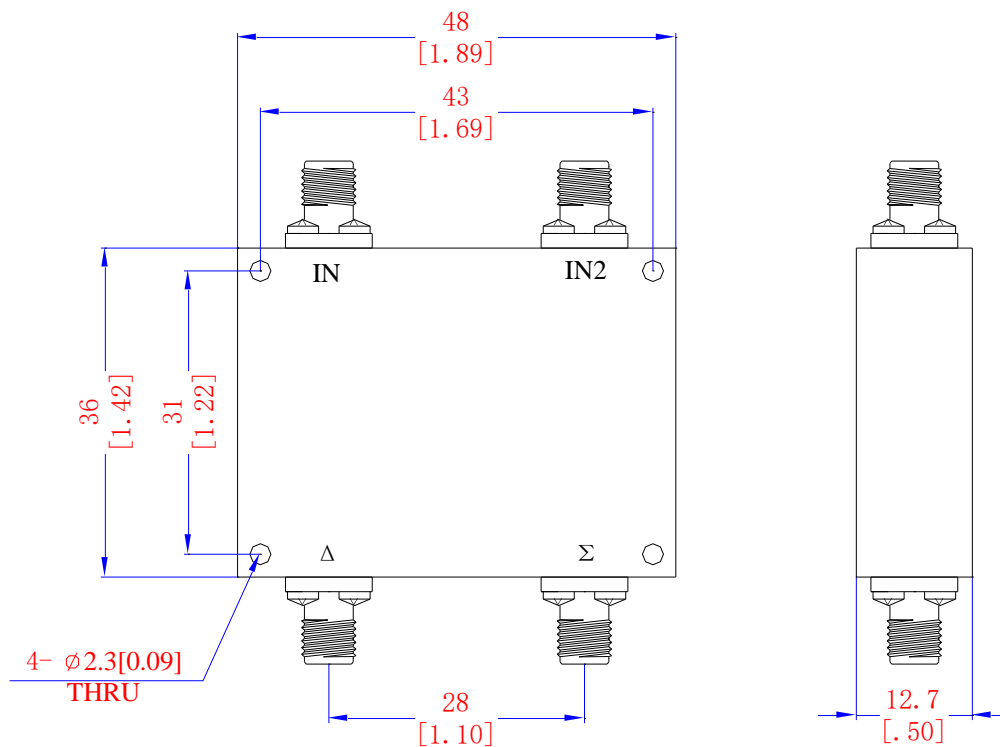
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Mechanical Specifications		Environmental Specification	
Parameter	Specification	Parameter	Specification
Input Connectors	SMA-Female (50Ω)	Operating Temp.	-40°C to +70°C
Output Connectors	SMA-Female (50Ω)	Storage Temp.	-55°C to +85°C
ROHS	Yes	Environment 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:

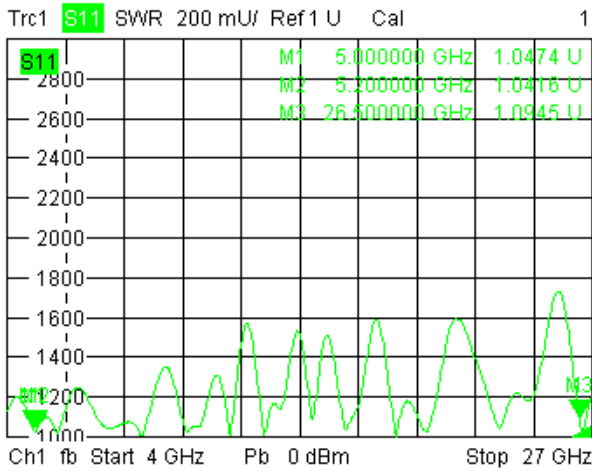
All Dimensions in mm (inches)

Outline Tolerances ±0.3(0.012)

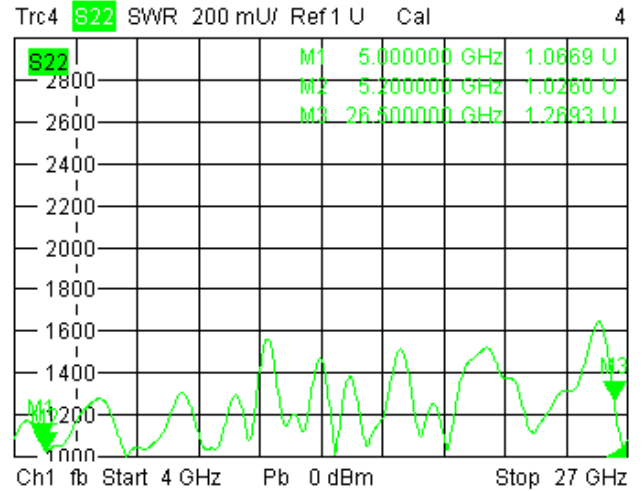


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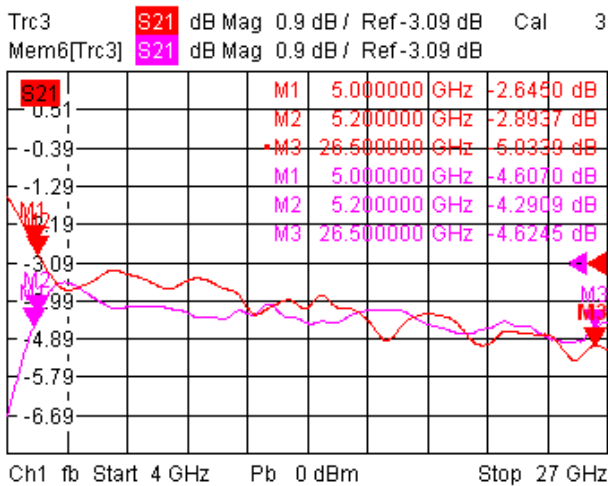
Input VSWR



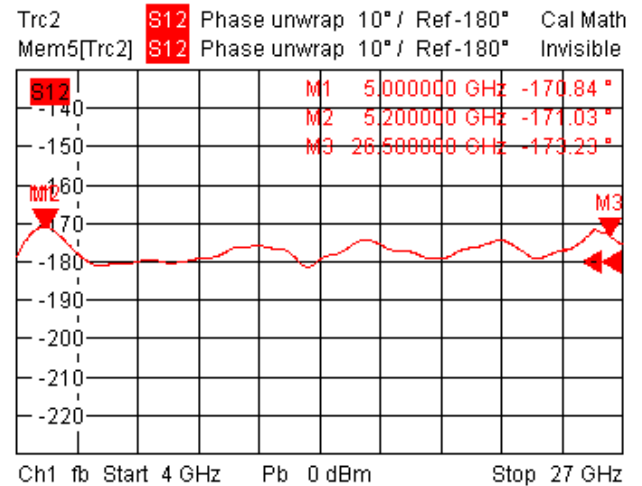
Output VSWR



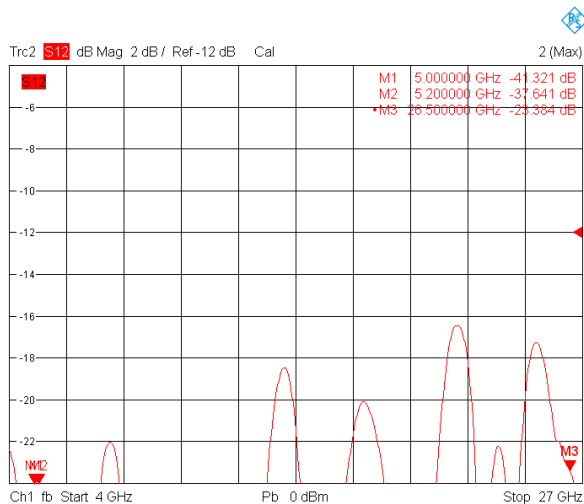
Loss & Amplitude Unbalance



Phase Unbalance



Isolation





PN: HRT-HC(6000/26500)-180S

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