



### Coaxial 20W 90° Hybrid Coupler 10-26.5GHz



#### Features

- High power handling up to 20W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature
- High peak to average handling capability

#### Typical Applications

- Aerospace and military applications
- LMDS multi-carrier operation

#### Electrical Specifications, $T_A=25\text{ }^\circ\text{C}$

Parameters		Min.	Typ.	Max.	Units
Frequency Range		10		26.5	GHz
Nominal Coupling			3		dB
Insertion Loss			1.0	1.5	dB
Isolation		15	17		dB
Amplitude Imbalance			$\pm 0.4$	$\pm 0.6$	dB
Phase Imbalance			$\pm 5$	$\pm 7$	deg
VSWR			1.5	1.7	: 1
Power Rating	Average	20			W
	Peak	500			W
Impedance		50			Ohms
Weight		0.71			ounces
Input / Output Connectors		2.92-Female			
Material		Aluminum			
Finish		Blue Paint			

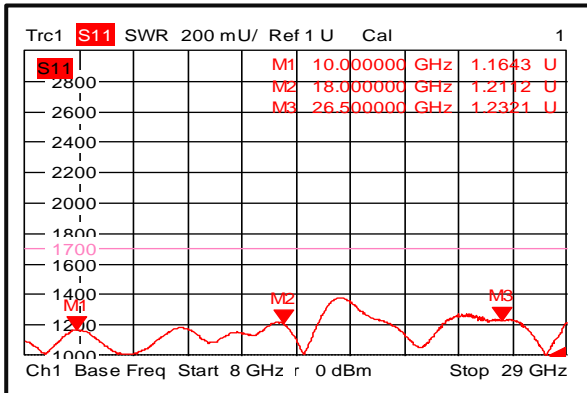
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### Environmental Specifications

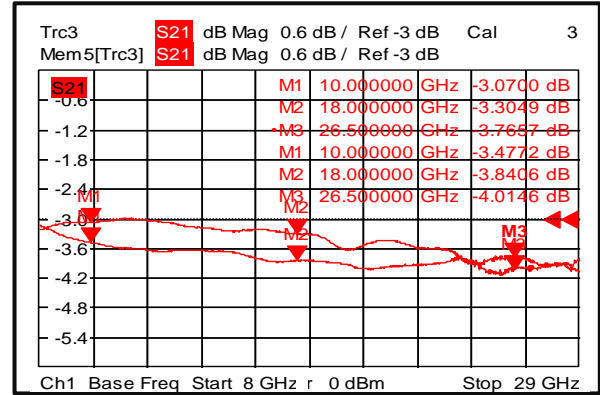
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-55 ~ +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25gRMS(15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msec half sine wave, 3 axis both directions

### Input VSWR

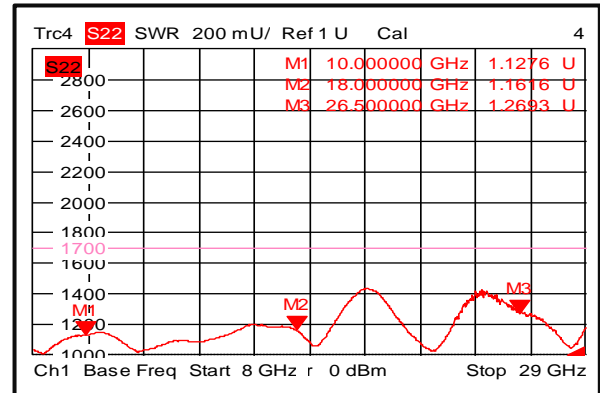


### Typical Performance Plots

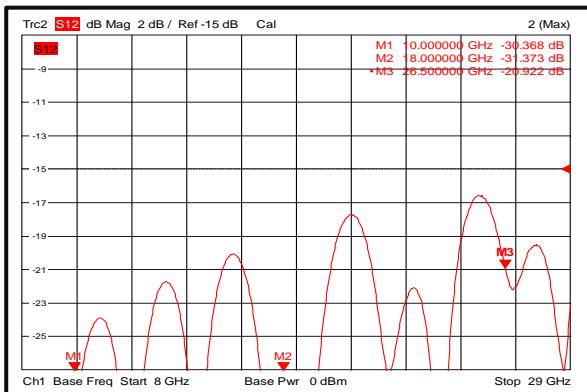
#### Loss & Amplitude Imbalance



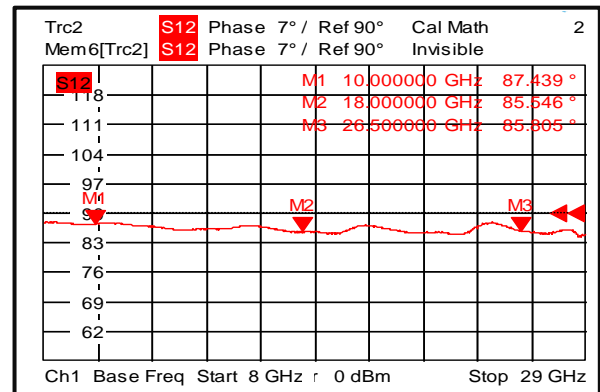
### Output VSWR



### Isolation



### Phase Imbalance

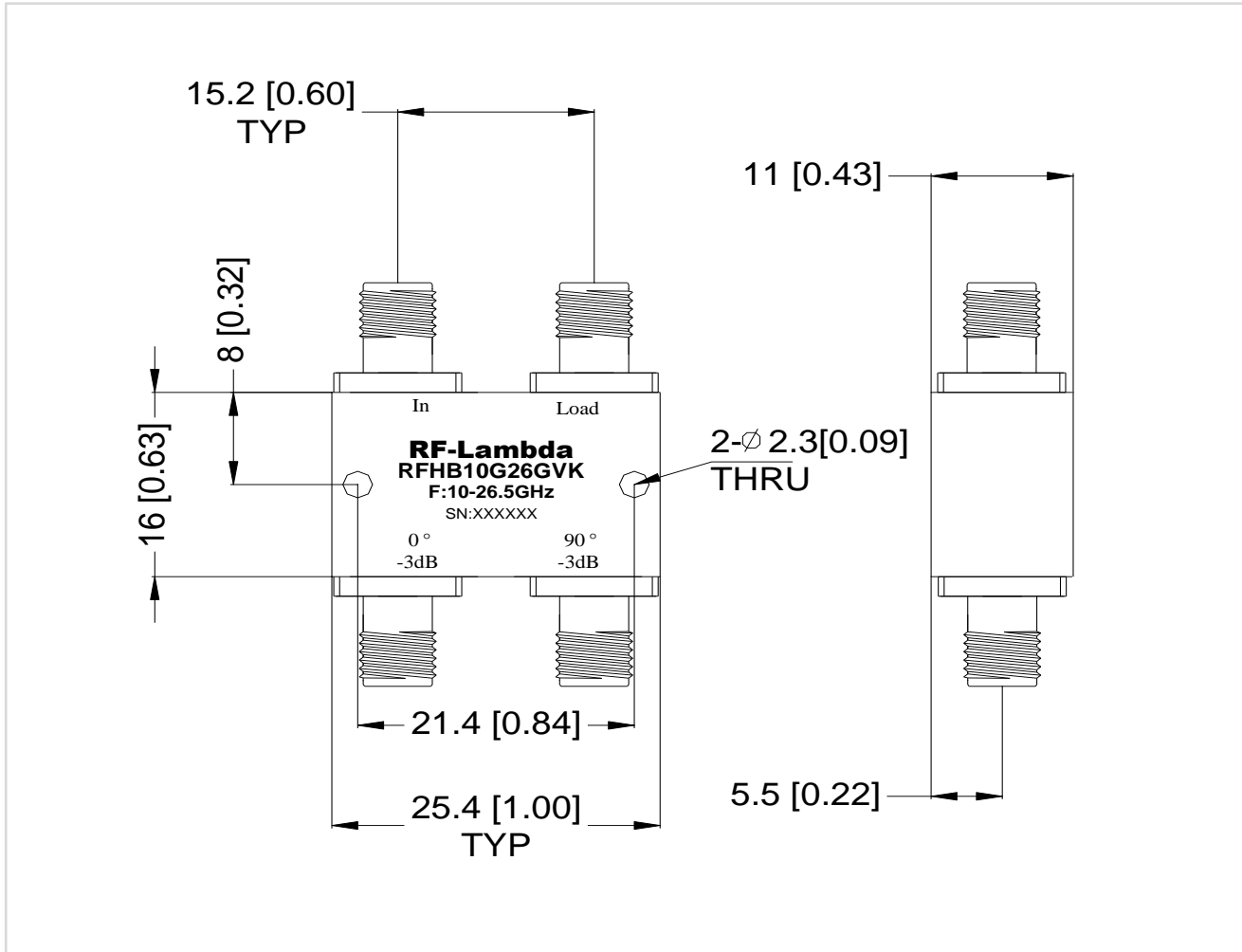




### Outline Drawing:

All Dimensions in mm [inches]

Tolerance  $\pm 0.2$  [0.008]



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