

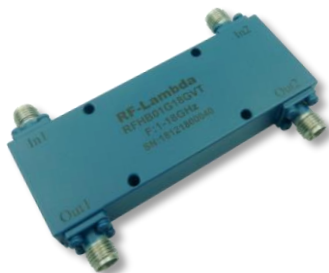


RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFHB03M03GVT

Coaxial 50W 90° Hybrid Coupler 0.3-3GHz



Note: The photo is for illustration purposes only.
Please refer to the outline drawing.



Features

- High power handling up to 50W
- Ultra Wide band operation
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature

Typical Applications

- Aerospace and Military Applications
- Wireless Infrastructure.
- Test and Measurement

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

Parameter		Min.	Typ.	Max.	Units
Frequency Range		0.3		3	GHz
Nominal Coupling			3		dB
Insertion Loss				0.8	dB
Isolation		20	22		dB
VSWR				1.3	: 1
Amplitude Imbalance				± 0.75	dB
Phase Imbalance				± 5	deg
Power Rating	Forward Power	50			W
	Peak Power	1			KW
Impedance		50			Ohms
Input / Output Connectors		SMA-Female			
Material		Aluminum			
Finish		Blue Paint			

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Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-45°C~+85°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72 Hours
Shock		1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	MIL-STD-883	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)		MIL-STD-883 (For Hermetically Sealed Units)

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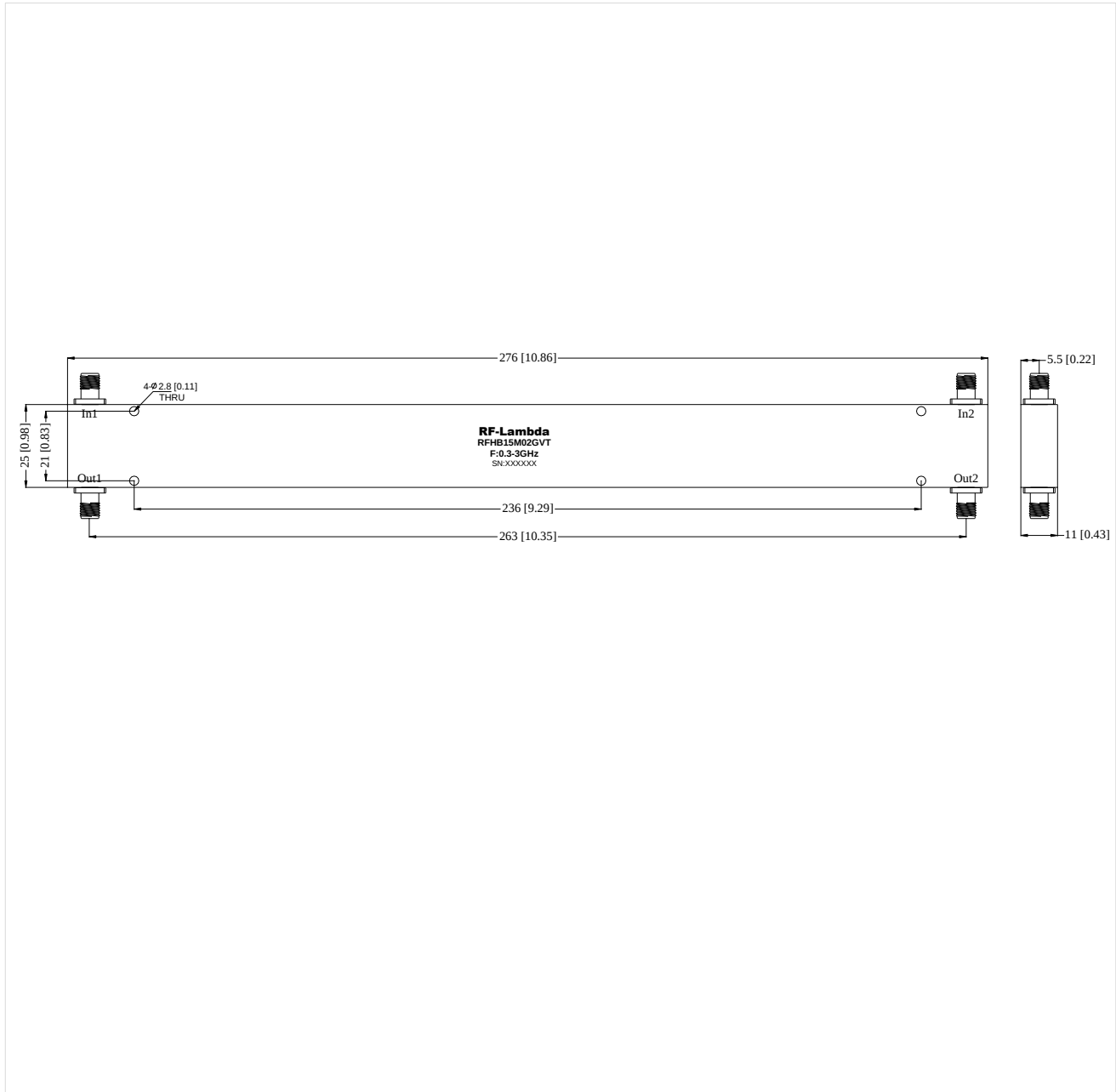
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Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.2 [0.008]



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