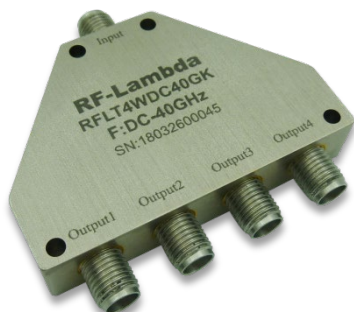


Coaxial 1W 0° 4-Way Power Divider DC-40GHz



Features

- High power handling up to 1W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss

Typical Applications

- Aerospace and military applications
- Test and Measurement
- Wireless Infrastructure

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

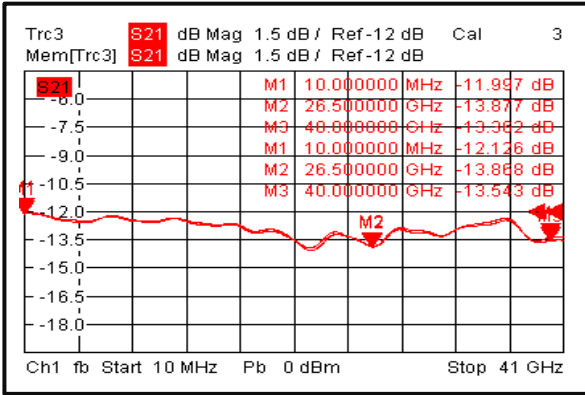
Parameters		Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range		DC		26.5	26.5		40	GHz
Insertion Loss			14.5	15		14.5	15	dB
Isolation			10.5			11		dB
Input VSWR			1.3	1.5		1.7	1.9	: 1
Output VSWR			2.0	2.5		1.8	2.5	: 1
Amplitude Imbalance			± 0.4	± 0.5		± 0.5	± 0.6	dB
Phase Imbalance			± 3	± 5		± 5	± 7	Deg
Power Rating	Forward Power	1						W
	Peak Power	10 (10% Duty Cycle, 1 us Pulse Width)						W
Impedance		50						Ohms
Weight		1.5 Max.						Ounces
Input / Output Connectors		2.92mm-Female (Stainless Steel)						
Material		Aluminum						
Finish		Nickel Plated						

Environmental Specifications and Test Standards

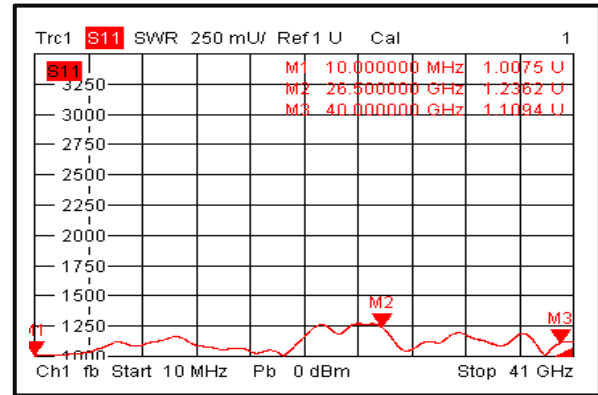
Parameter	Description
Operational Temperature	-40°C~+85°C (Case Temperature)
Storage Temperature	-50°C~+105°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
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	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)

Typical Performance Plots

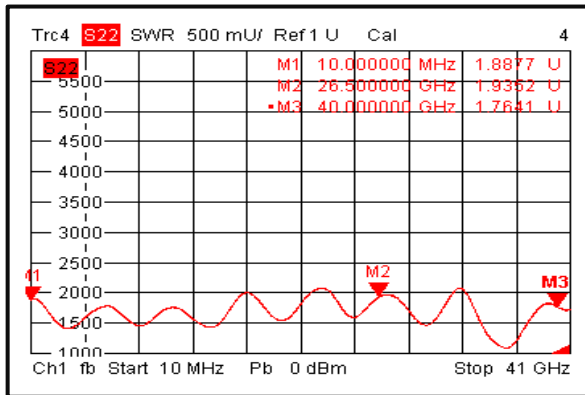
Loss & Amplitude Imbalance



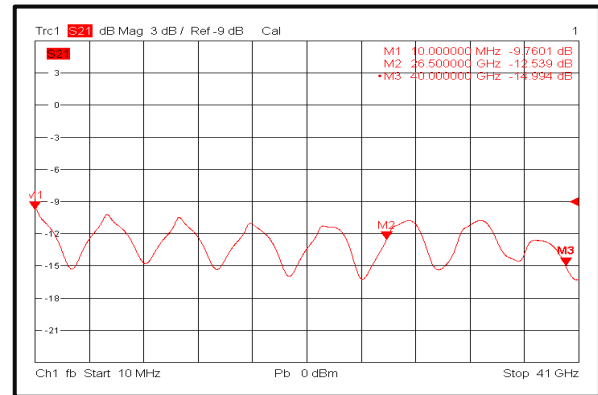
Input VSWR



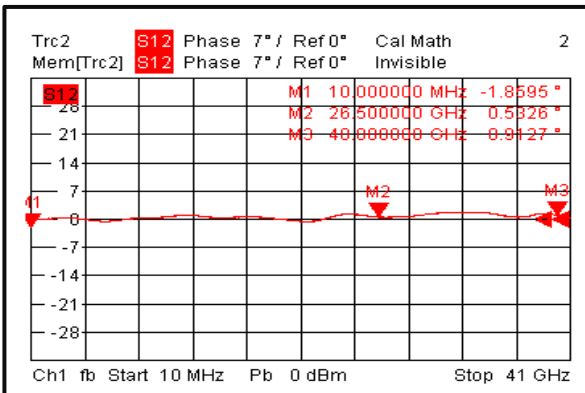
Output VSWR



Isolation



Phase Imbalance



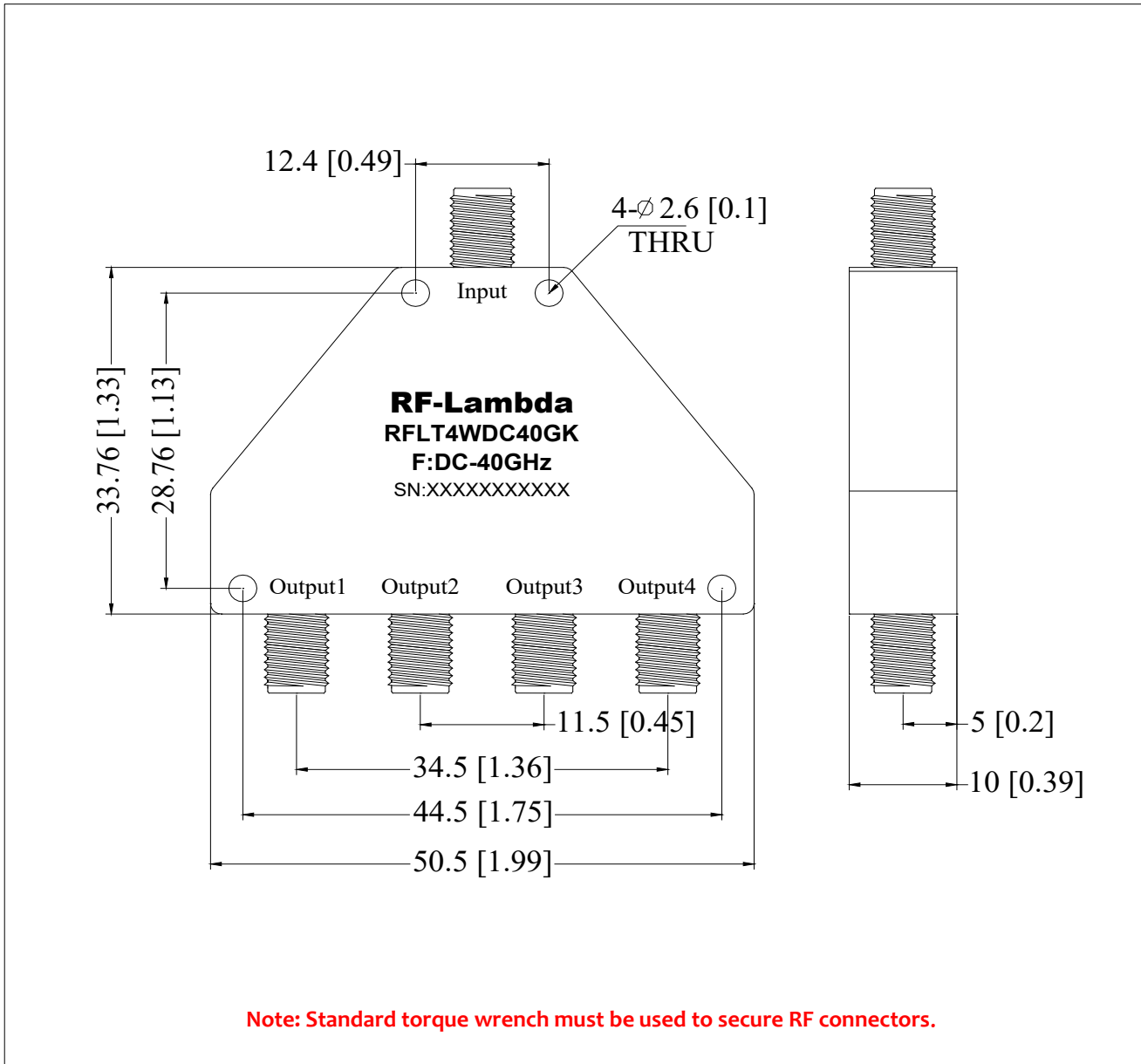
Coaxial 1W 0° 4-Way Power Divider DC-40GHz

Outline Drawing:

All Dimensions in mm [inches]

Outline Tolerances ± 0.25 [0.01]

Mounting Holes Tolerances ± 0.1 [0.004]



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