

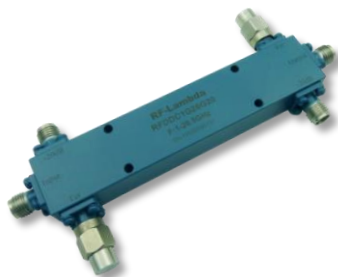


# RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

**RFDDC8G26G10**

## Coaxial 30W 10dB Dual Directional Coupler 8 – 26.5GHz



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



### Features

- High power handling up to 30 W
- Wide band operation
- Functional Bandwidth : 6GHz to 40GHz
- Low Insertion Loss
- Stable performance over temperature

### 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		8		26.5	GHz
Nominal Coupling		9	10	11	dB
Frequency Sensitivity			$\pm 0.7$	$\pm 1.0$	dB
Directivity		12	14		dB
Insertion Loss(Excl Coupling)				2.1	dB
Insertion Loss (true)			2.5	3.0	dB
VSWR Primary			1.5	1.7	: 1
VSWR Secondary			1.5	1.7	: 1
Power Rating	Average	30			W
	Peak	500			W
Impedance		50			Ohms
Weight		1.76			ounces
Input / Output Connectors		2.92mm-Female			
Material		Aluminum			
Finish		Blue Paint			

**Coaxial 50W 10dB Dual Directional Coupler 8 – 26.5GHz**



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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		Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883	MIL-STD-883 (For Hermetically Sealed Units)

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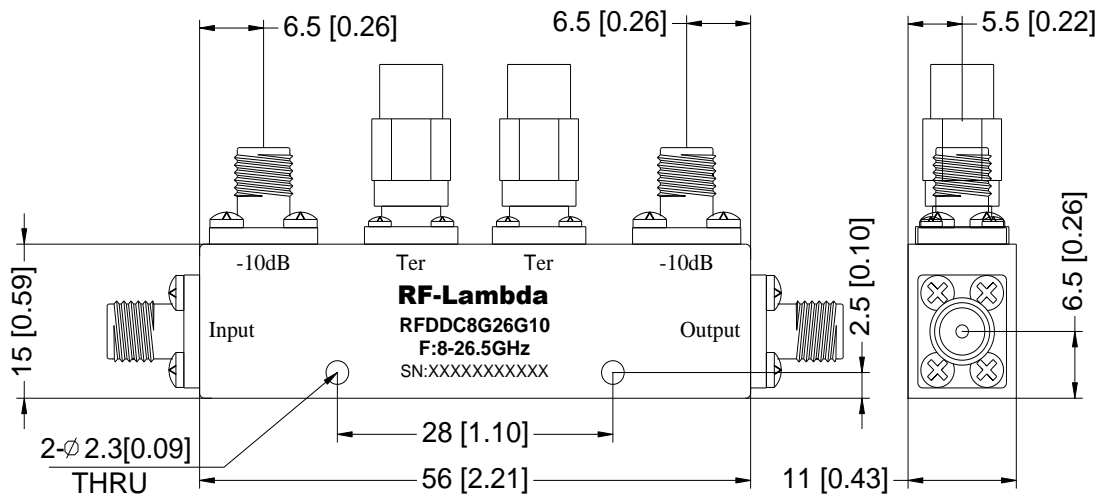
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### Outline Drawing:

All Dimensions in mm [inches]

Tolerance  $\pm 0.25$ [0.01]



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### Important Notice

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