

Coaxial 20W 0° 2-Way Power Divider 2 – 40GHz



Features

- High power handling up to 20W
- Ultra 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, $T_A=25\text{ }^\circ\text{C}$

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Units	
Frequency Range	2		18	18		40	GHz	
Nominal Splitter Loss		3			3		dB	
Insertion Loss		1.0	1.5		1.5	1.8	dB	
Isolation	16	17		16	17		dB	
Input VSWR		1.6	1.8		1.6	1.8	: 1	
Output VSWR		1.4	1.5		1.4	1.5	: 1	
Amplitude Imbalance		0.3	0.4		0.3	0.4	dB	
Phase Imbalance		4	5		5	6	deg	
Power Rating	Forward Power	20						W
	Reverse Power	1						W
	Peak Power	200						W
Impedance	50						Ohms	
Weight	1.41						Ounces	
Input / Output Connectors	2.92-Female							
Material	Aluminum							
Finish	Blue Paint							

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)