

20dB Coaxial Directional Coupler

P/N: YX-C20-1G-18G

Features:

- It can realize the customized design scheme
- High directivity within operational band
- Low loss and High isolation

Typical Applications

- Mobile communication field
- GSM,LTE,5G
- Satellite radar, electronic countermeasures
- Test equipment



Electrical&Mechanical Specifications						
Parameter		Min.	Typ.	Max.	Units	
Frequency Range		1		18	GHz	
Nominal Coupling		19	20	21	dB	
Frequency Sensitivity			±0.7	±1.0	dB	
Directivity		16	20		dB	
Insertion Loss (Excl. Coupling)			0.5	0.8	dB	
Insertion Loss (true)			0.5	0.8	dB	
VSWR Primary			1.3	1.5	: 1	
VSWR Secondary			1.3	1.5	: 1	
Power Rating	Average	50				W
	Peak	500 (10%DutyCycle,1usPulseWidth)				W
Impedance		50				Ohms
Weight		NA				ounces
Input / Output Connectors		SMA– Female				
Material		Aluminum				
Finish		Oxidation sandblasting				

Environmental Specifications

Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment)
Vibration	25gRMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

Outline Drawing:

All Dimensions in mm (inches)

Outline Tolerances ± 0.5 (0.02)

Mounting Holes Tolerances ± 0.2 (0.008)

