

YSDC30-R5-18-20-S

Directional Coupler, 30 W, 0.5-18 GHz, 20 dB coupling, SMA

Key Features

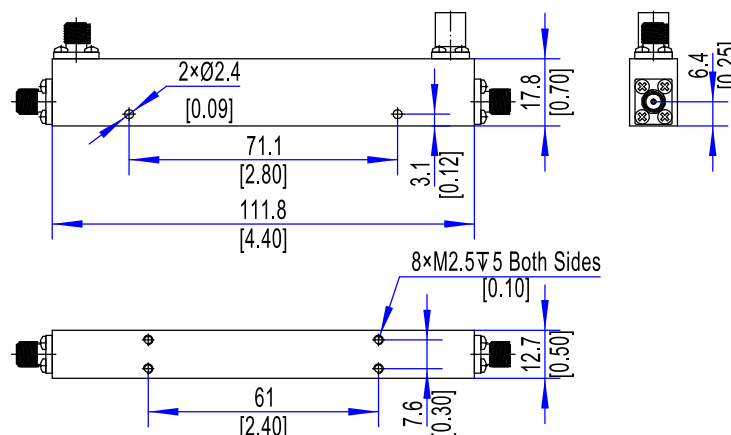
- Ultra-Wideband 0.5-18 GHz Coverage
- Stable 20 dB Coupling Across Band
- Low Insertion Loss & Good Directivity
- High Power Handling up to 30 W
- Compact Design with SMA Connectors

Applications

- Broadband RF & Microwave Systems
- Signal Sampling & Power Monitoring
- Radar & Electronic Warfare Systems
- Satellite & Communication Systems
- Test & Measurement Applications

Electrical Specifications		
1	Frequency Range	0.5-18 GHz
2	Coupling	20 ±0.6 dB
3	Coupling Flatness	≤ ±0.7 dB
4	Insertion Loss	≤1.0 dB(Including theoretical insertion loss)
5	Main Line VSWR	≤1.4:1
6	Secondary Line VSWR	≤1.4:1
7	Directivity	≥15 dB
8	Power	30 W(CW), 3 kW(PK)
Environmental Specifications		
1	Operating Temperature	-55°C to +85°C
2	Storage Temperature	-55°C to +100°C
Mechanical Specifications		
1	Connectors	SMA Female
2	Surface Finishing	Nickel Plated
3	Dimensions ¹	111.8×17.8×12.7 mm / [4.40×0.70×0.50 in]

Outline Drawing (Units: mm/[inch], Tolerance: ±0.3 mm)



Note 1: Excluding Connector size