

YSDC50-R8-2R5-6-S

Directional Coupler, 50 W, 0.8-2.5 GHz, 6 dB coupling, SMA

Key Features

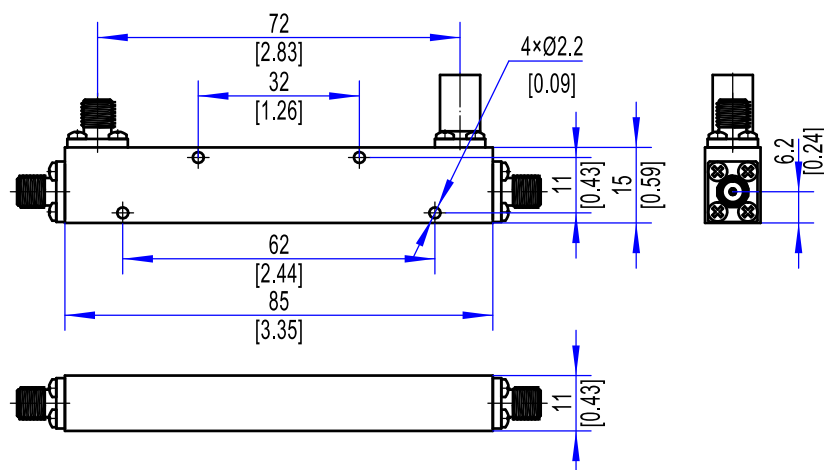
- 0.8 – 2.5 GHz ultra-wideband
- 6 dB nominal coupling (± 1 dB)
- Low insertion loss (≤ 0.5 dB typ.)
- Compact SMA female interface
- 50 W CW power handling

Applications

- Broadband test & measurement
- Signal monitoring & sampling
- Radar & communication systems
- Power measurement setups
- High-frequency module integration

Electrical Specifications		
1	Frequency Range	0.8-2.5 GHz
2	Coupling	6 ± 1 dB
3	Coupling Flatness	$\leq \pm 0.7$ dB
4	VSWR	$\leq 1.2:1$
5	Insertion Loss	≤ 0.5 dB
6	Directivity	≥ 20 dB
7	Power	50 W(CW)
Environmental Specifications		
1	Operating Temperature	-55°C to $+85^{\circ}\text{C}$
Mechanical Specifications		
1	Connectors	SMA Female
2	Dimensions ¹	85×15×11 mm / [3.35×0.59×0.43 in]

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



Note 1: Excluding Connector size