

# YSDC500-80M-1-50-N

Directional Coupler, 500 W, 0.08-1 GHz, 50 dB coupling, N-Type

## Key Features

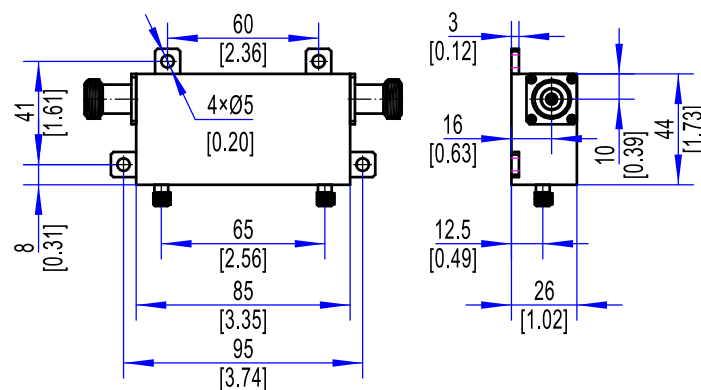
- 0.08 – 1 GHz broadband operation
- High coupling factor (50 dB)
- Ultra-low insertion loss ( $\leq 0.3$  dB)
- Excellent directivity ( $\geq 20$  dB)
- High CW power handling (500 W)

## Applications

- High-power RF signal monitoring
- Broadcast transmitter systems
- Industrial RF heating equipment
- Power amplifier test benches
- Base station and communication systems

Electrical Specifications		
1	Frequency Range	0.08-1 GHz
2	Coupling	50 $\pm$ 1 dB
3	Coupling Flatness	$\leq \pm 1$ dB
4	Insertion Loss	$\leq 0.3$ dB
5	Main Line VSWR	$\leq 1.2:1$
6	Directivity	$\geq 20$ dB
7	Power	$\leq 500$ W(Main Line)
Environmental Specifications		
1	Operating Temperature	-55°C to +85°C
Mechanical Specifications		
1	Connectors	N-Type Female, SMAFemale
2	Dimensions <sup>1</sup>	85×44×26 mm / [3.35×1.73×1.02 in]

## Outline Drawing (Units: mm/[inch], Tolerance: $\pm 0.3$ mm)



Note 1: Excluding Connector size