

# YSDC500-20M-1-50-N

Directional Coupler, 500 W, 0.02-1 GHz, 50 dB coupling, N-Type

## Key Features

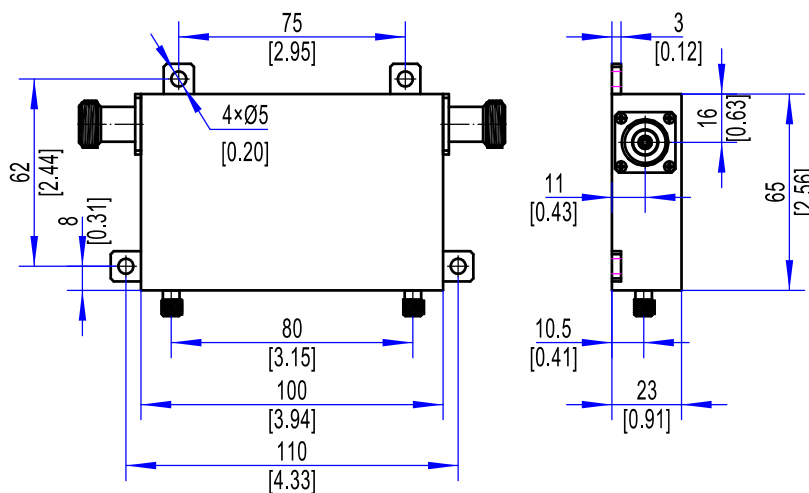
- 0.02 – 1 GHz broadband coverage
- High coupling factor (50 dB)
- Ultra-low insertion loss ( $\leq 0.3$  dB)
- Low main line VSWR ( $\leq 1.2:1$ )
- High CW power handling (500 W)

## Applications

- High-power RF monitoring
- Broadcast transmitter systems
- Industrial RF heating systems
- Power amplifier test benches
- Communication base station measurements

Electrical Specifications		
1	Frequency Range	0.02-1 GHz
2	Coupling	50 $\pm$ 1.5 dB
3	Coupling Flatness	$\leq \pm 1.5$ dB
4	Insertion Loss	$\leq 0.3$ dB
5	Main Line VSWR	$\leq 1.2:1$
6	Directivity	$\geq 18$ dB
7	Power	$\leq 500$ W (CW)
Environmental Specifications		
1	Operating Temperature	-55°C to +85°C
Mechanical Specifications		
1	Connectors	N-Type Female, SMA Female
2	Surface Finishing	Natural Conductive Oxidation
3	Dimensions <sup>1</sup>	100×65×23 mm / [3.94×2.56×0.91 in]

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



Note 1: Excluding Connector size