



Waveguide to Coaxial Adapter
12.4-18GHz Frequency Range

Waveguide to Coaxial Adapter Data Sheet

RM-WCA62

Features

- Full Waveguide Band Performance
- Low Insertion Loss and VSWR
- Test Lab
- Instrumentation

Descriptions

The **RM-WCA62** are right angle (90°) waveguide to coaxial adapters that operate the frequency range of 12.4-18GHz. They are designed and manufactured for instrumentation grade quality but offered at a commercial grade price, allowing for an efficient transition between the rectangular waveguide and SMA-Female coaxial connector.

Specification

RM-WCA62		
Item	Specification	Units
Frequency Range	12.4-18	GHz
Waveguide	WR62	dBi
VSWR	1.3 Max	
Insertion Loss	0.4 Max	dB
Flange	FBP140	
Connector	SMA-Female	
Average Power	50Max	W
Peak Power	3	kW
Material	Al	
Size(L*W*H)	20.8*33.3*34.9(±5)	mm
Net Weight	0.027	Kg

Waveguide to Coaxial Adapter Data Sheet

RM-WCA62

Technical drawings of the 100Watt 28GHz Power Amplifier (PA) showing dimensions in millimeters (mm) in brackets.

Top View:

- Overall width: 33.3
- Overall height: 33.3
- Four mounting holes: $4 \times \varnothing 4.0 \pm 0.157$ Thru
- Internal dimensions:
 - Horizontal: $\varnothing 0.622$ (15.8), $\varnothing 0.956$ (24.3), $\varnothing 1.311$ (33.3)
 - Vertical: $\varnothing 0.311$ (7.9), $\varnothing 0.994$ (25.3), $\varnothing 1.311$ (33.3)

Side View:

- Overall height: 18.2
- Top flange thickness: $\varnothing 0.266$ (6.7)
- Label: SMA-Female
- Internal dimensions:
 - Vertical: $\varnothing 0.197$ (5.0), $\varnothing 0.820$ (20.8), $\varnothing 1.324$ (34.9)

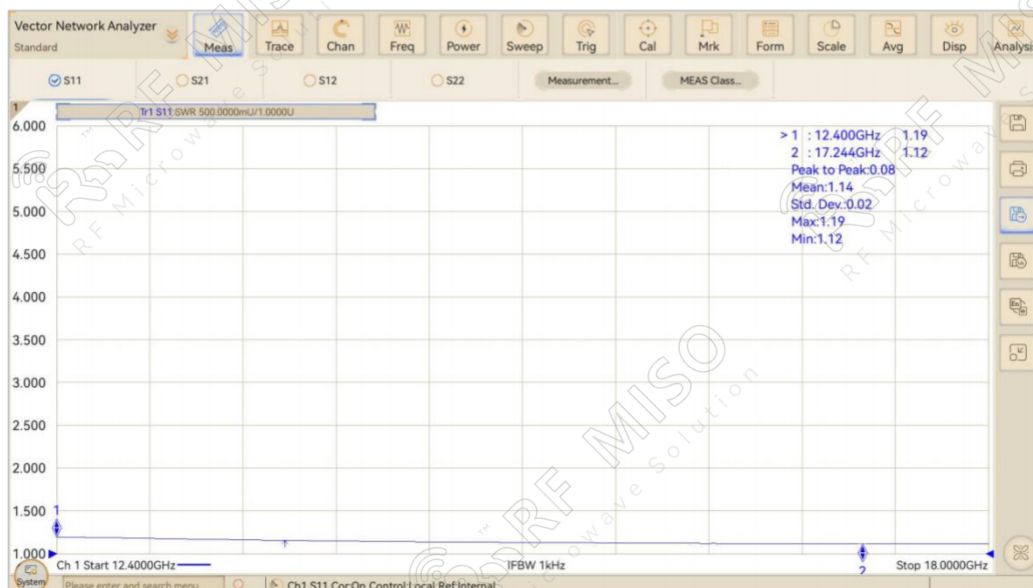
Isometric View:

- Shows the 3D structure of the amplifier with the SMA-Female connector.

Bottom View:

- Shows the bottom of the amplifier with four mounting holes.

VSWR



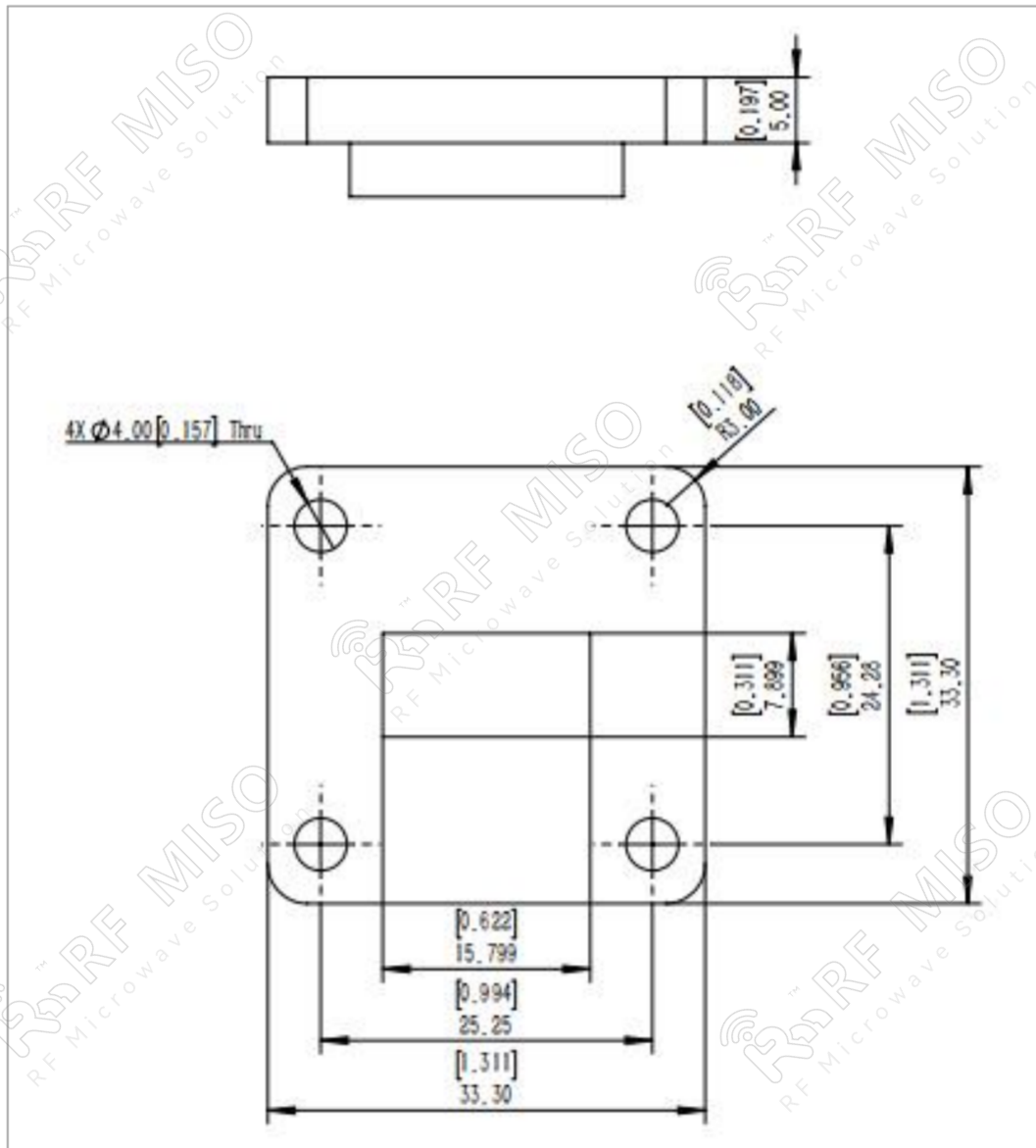


Waveguide to Coaxial Adapter
12.4-18GHz Frequency Range

Waveguide to Coaxial Adapter Data Sheet

RM-WCA62

Flange Outline Drawing



FBP140