

Technical proposal for JX-WGF1-14.9G15.05G-150M Waveguide Filter

Revision History

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1. Mechanical layout

Table 1 Mechanical Specifications @ JX-WGF1-14.9G15.05G-150M

Dimension	L x W x H: 100mm x 33.3mm x 33.3mm
Waveguide port	WR-62
Finish	Acid passivation
Notes	Material shall be RoHS 6/6

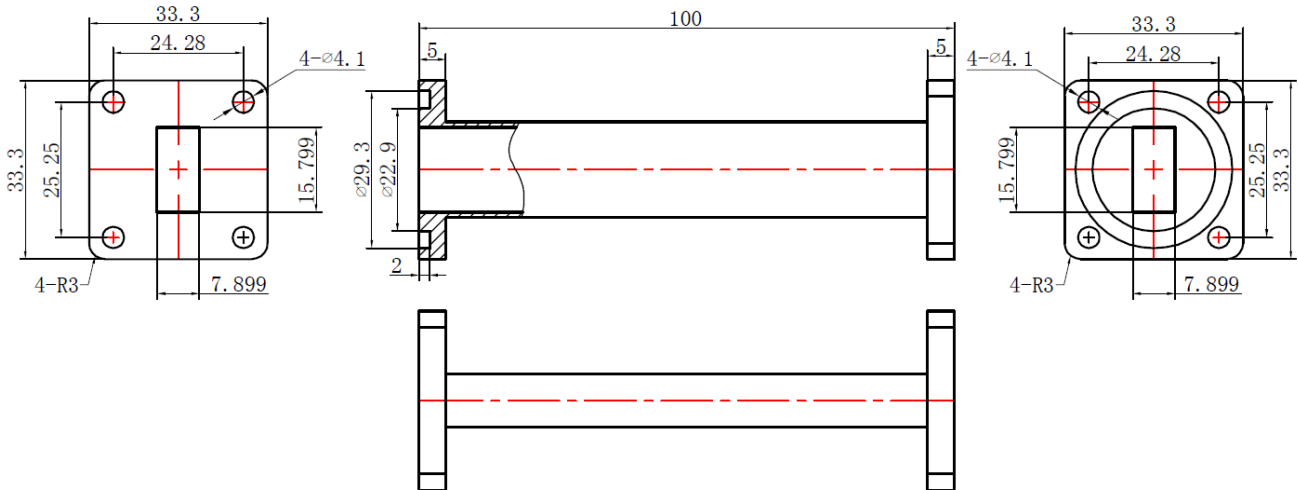


Figure 1 JX-WGF1-14.9G15.05G-150M front panel layout

2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-WGF1-14.9G15.05G-150M

Item	Frequency Band	14.9-15.05GHz
1	VSWR	≤ 1.2
2	Insertion loss	$\leq 0.7\text{dB}$
3	3 dB bandwidth(excluding pass band loss)	150MHz goal, 170MHz max; 0.1% typical
4	Rejection	$\geq 40\text{dB}$ @ 15.3GHz
5	Power	500W CW
6	Temperature range	Operating: -20 to +60°C Storage: -30 to +70°C
7	Altitude	3000 meters
8	Humidity	100%

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