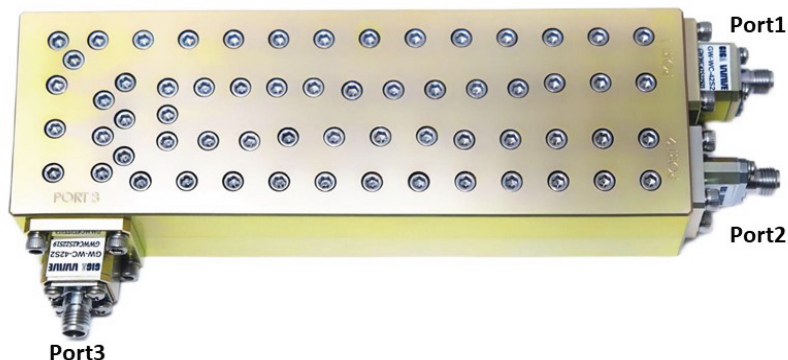


GW-WD-K2

K & Ka band waveguide diplexer
with 2.92 mm connector to feed

Applications

- 1-Satellite communications
- 2-Radar applications
- 3-5G systems
- 4-Communication systems



General description

K-Ka band waveguide diplexer is a broadband filter that covers in the frequency ranges of 17.5 GHz to 30 GHz commonly used for satellite communications. The low pass band is from 17.5 GHz to 20 GHz and high pass band is from 26.5 GHz to 30 GHz. The RF diplexer has great insertion loss of 0.9 dB and minimum return loss of 12 dB. The diplexer is compatible with WR28 and WR42 waveguides. The rejection between the bands is 45 dB.

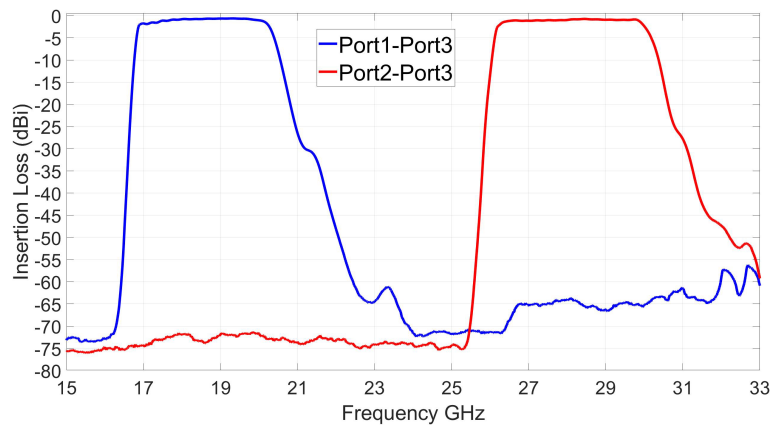
Electrical Specifications

Frequency Range: 17.5 -20 GHz & 26.5 GHz to 30 GHz
Rejection between Bands : ≥ 70 dB
Return loss: ≥ 12 dB
Connector: waveguide WR42&WR28
Tx and Rx isolation : 45dB
Insersion loss: 0.8 dB

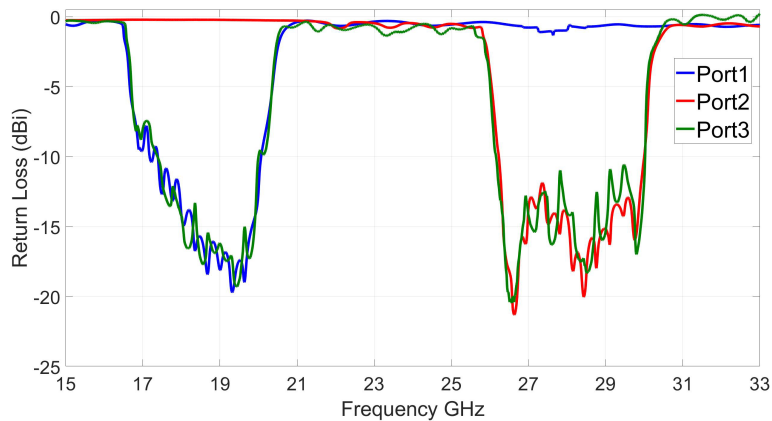
Mechanical Specifications

Material : Aluminium
Finish: Alodine
Weight : 1lb (450g)
Dimensions: 168 mm \times 70 mm \times 25 mm

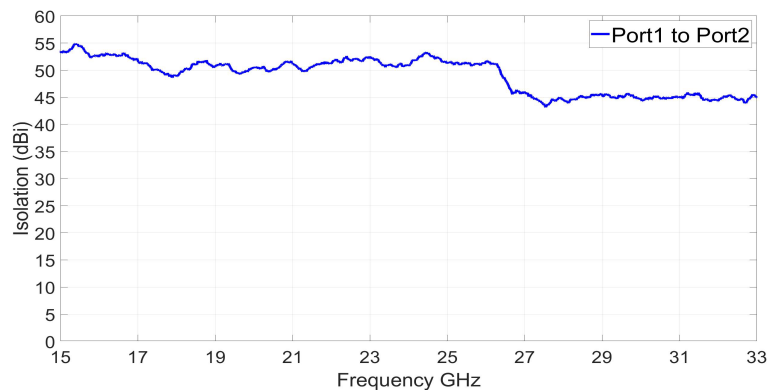
Insertion Loss



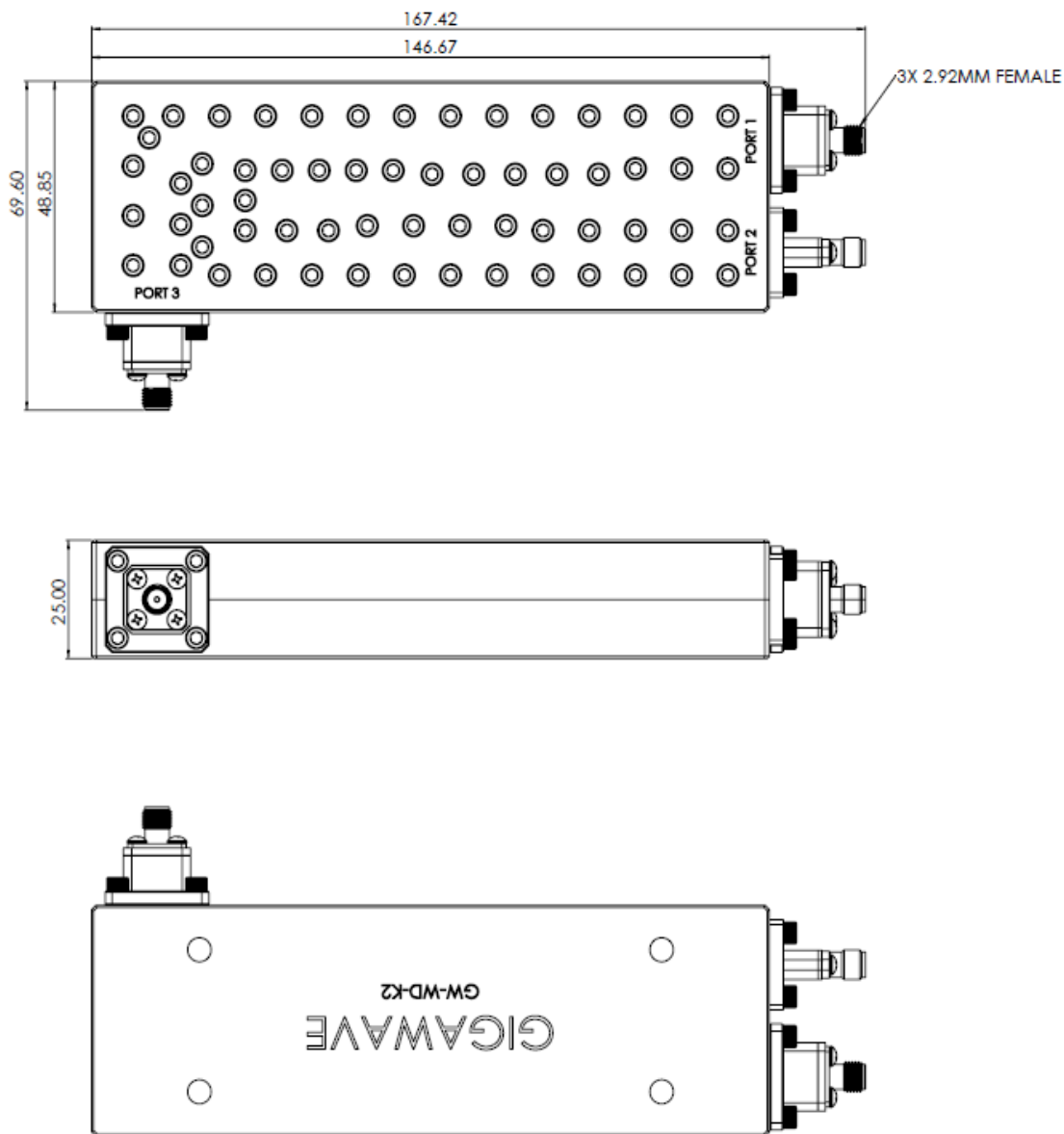
Return loss vs Frequency



Isolation



Mechanical Outline



*All dimensions are in millimeters and for reference only and may be subject to change without notice