

SWY-21328340-34-I1-V

WR-34 Waveguide Diplexer, 19.2 to 23.6 GHz and 25.25 to 31 GHz, Thermal Vacuum Safe

SWY-21328340-34-I1-V is an thermal vacuum safe WR-34 waveguide diplexer with a low passband of 19.2 to 23.6 GHz and a high passband of 25.25 to 31 GHz. Since both low end and high end passband frequencies can be selected by modifying the design, custom design models are available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Low Passband (P1-P2)			
Passband Frequency	19.2 GHz		23.6 GHz
Passband Insertion Loss		0.5 dB	
Passband Return Loss		20 dB	
Rejection Frequency	25.25 GHz		31 GHz
Rejection		30 dB	
High Passband (P1-P3)			
Passband Frequency	25.25 GHz		31 GHz
Passband Insertion Loss		0.7 dB	
Passband Return Loss		20 dB	
Rejection Frequency	19.2 GHz		23.6 GHz
Rejection		50 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
RF Ports	WR-34 Waveguide with UG-1530/U Flange
Material	Aluminum
Weight	3 Oz.
Finish	Chem Film
Outline	WY-I3

ECCN

EAR99

FEATURES

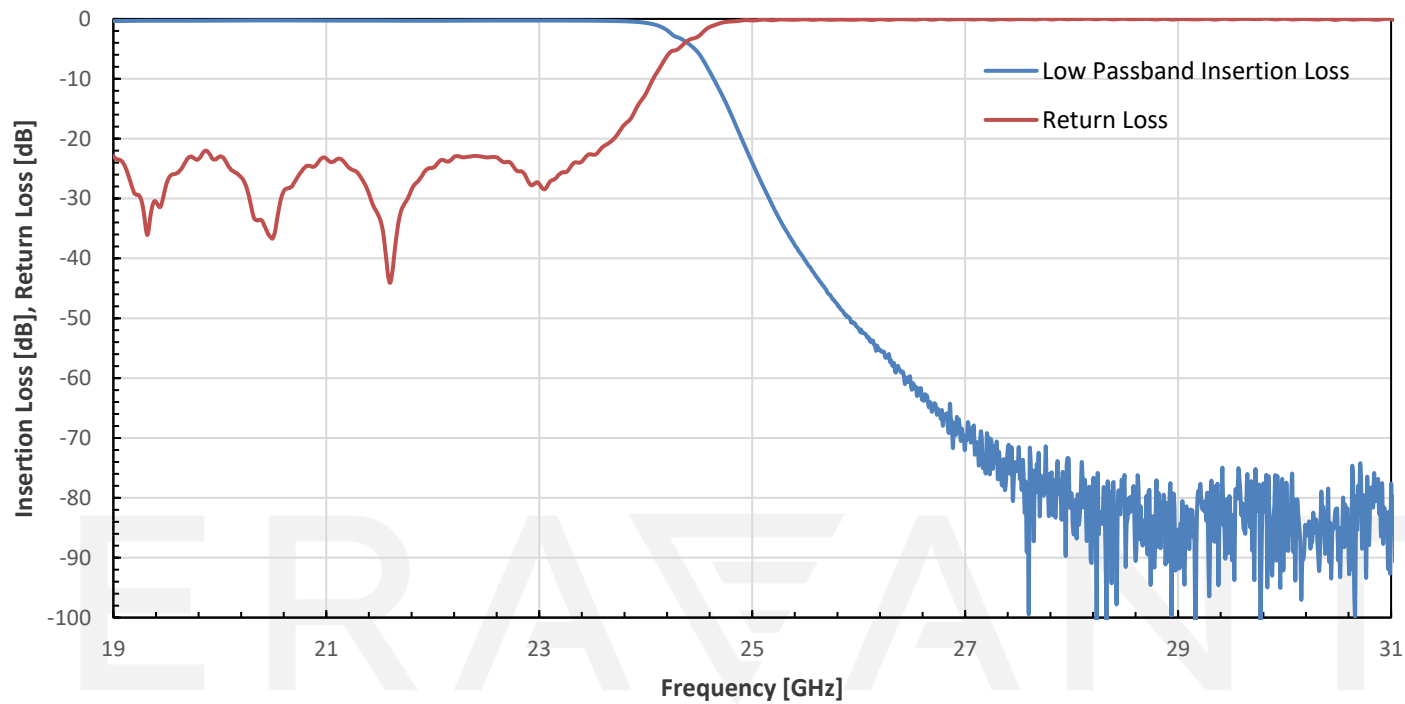
- Thermal Vacuum Safe
- Low Cost
- Low Insertion Loss
- High Rejection

APPLICATIONS

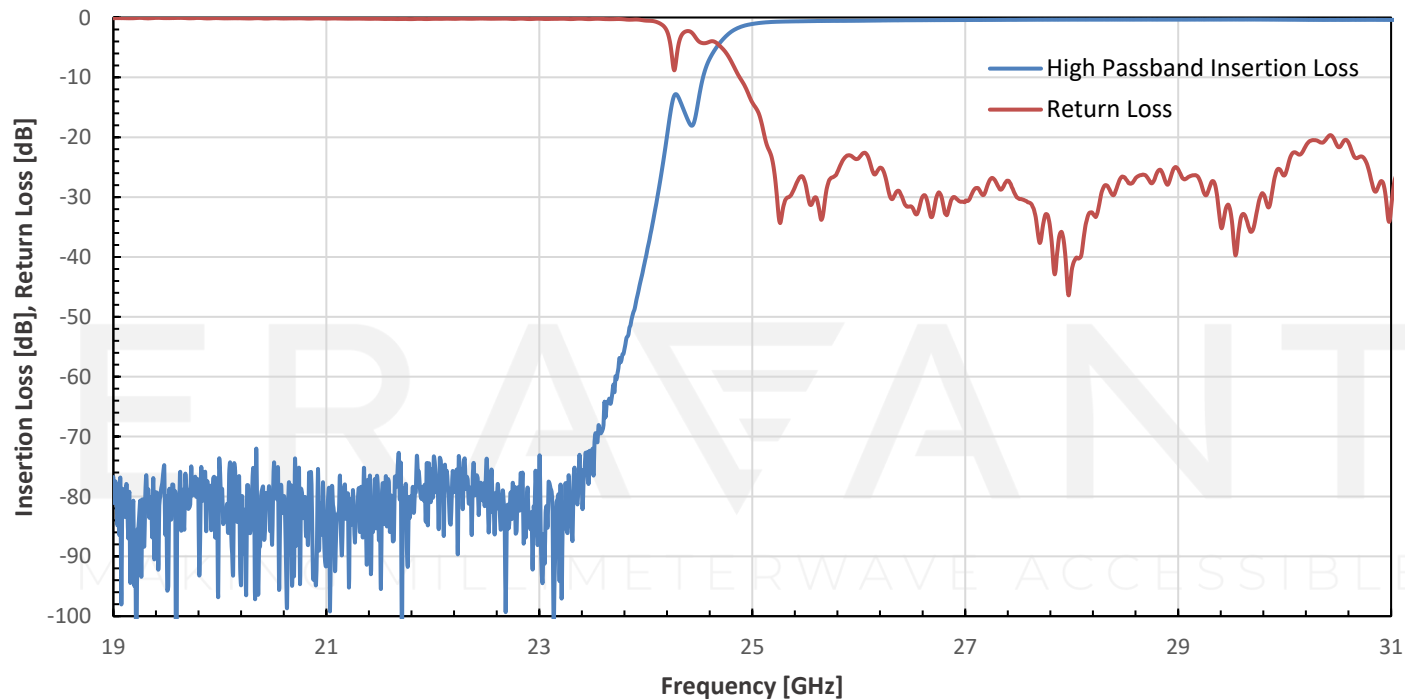
- Satellite Communication Systems
- Sub-assemblies



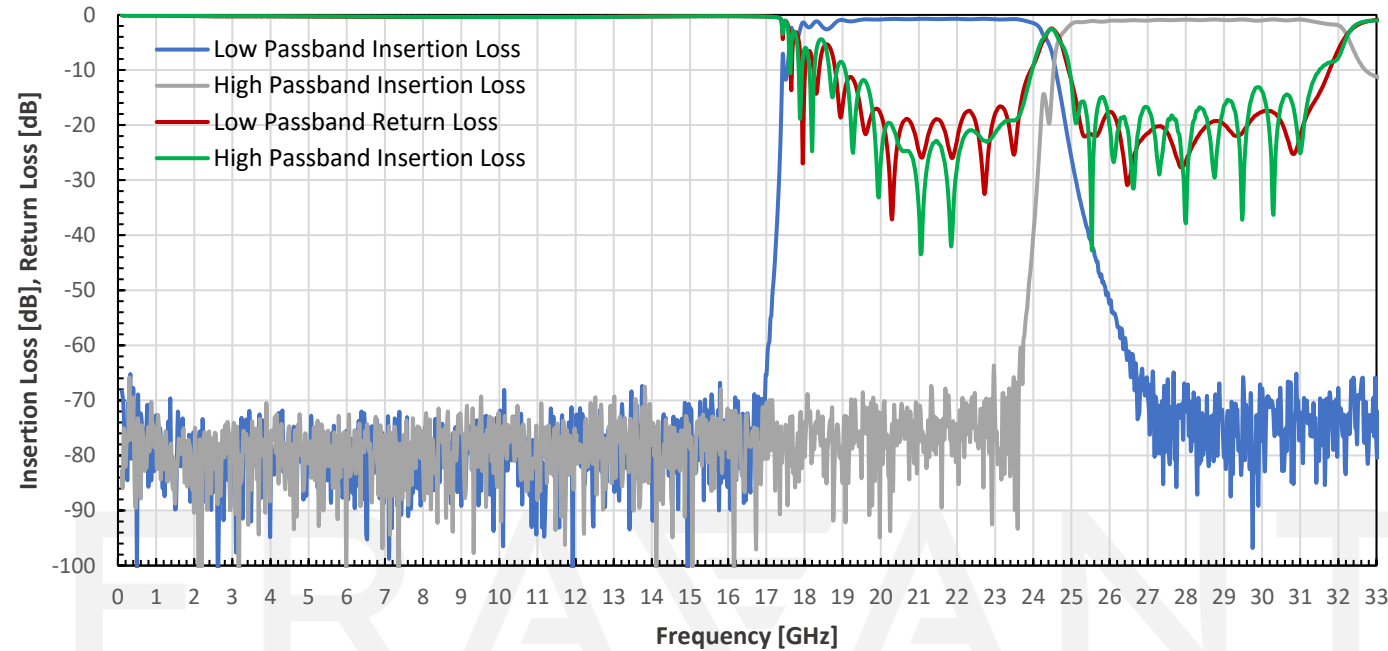
Typical Low Passband Performance vs. Frequency (P1-P2)



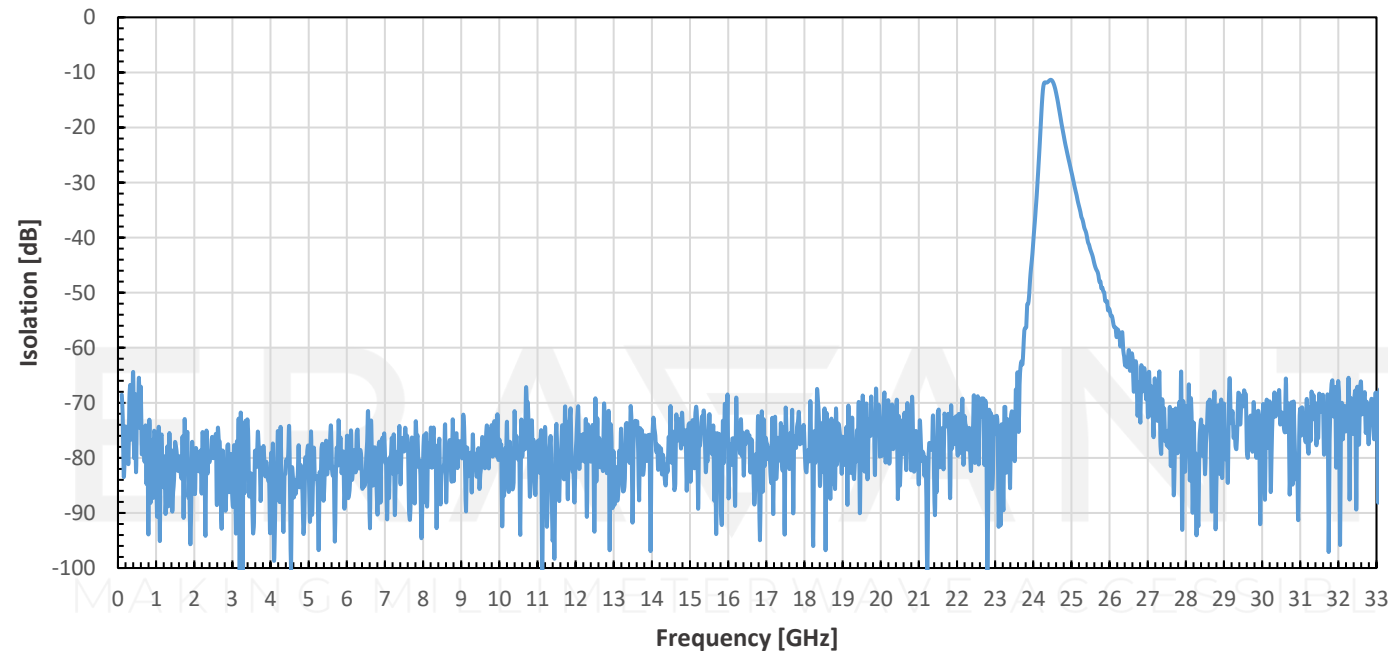
Typical High Passband Performance vs. Frequency (P1-P3)



Typical Broadband Performance vs. Frequency



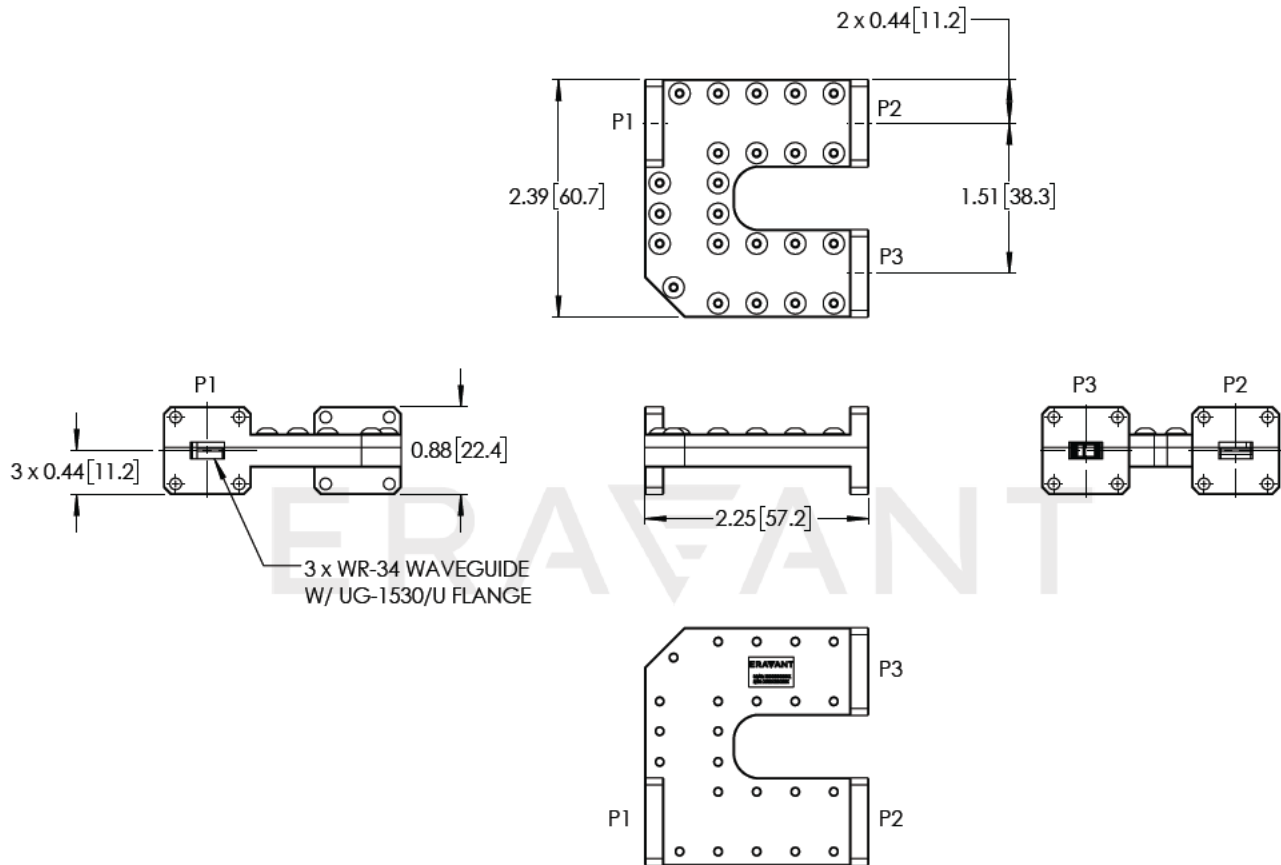
Typical Broadband Isolation vs. Frequency



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Mechanical Outline:

Unless otherwise specified, all dimensions are in inches [millimeters]



NOTE:

- Eravant reserves the right to change the information presented without notice.
- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- All testing was performed under +25 °C case temperature.

CAUTION:

- Any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.