SWP-18327302-42-S1-2

K-Band Power Divider, 18 to 26.5 GHz

SWP-18327302-42-S1-2 is a K-band, 2-way power divider that operates from 18 to 26.5 GHz. The power divider offers a typical insertion loss of 0.3 dB and typical isolation of 20 dB. All ports are well-balanced and in-phase for power dividing or combining applications across the band. The power divider is configured as a right-angle package with WR-42 waveguides and UG-595/U compatible flanges at all ports. Other power splitting options, such as 4-way, 8-way, and 16-way division, are available for both right-angle and inline configurations under different model numbers.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	18 GHz		26.5 GHz
Insertion Loss		0.3 dB	
Power Imbalance		±0.1 dB	
Isolation		20 dB	
Return Loss		15 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
RF Ports	WR-42 Waveguide with UG-595/U Compatible Flange
Material	Brass
Finish	Gold Plated
Weight	1.1 lbs
Outline	WP-K2-A

ECCN

EAR99

FEATURES

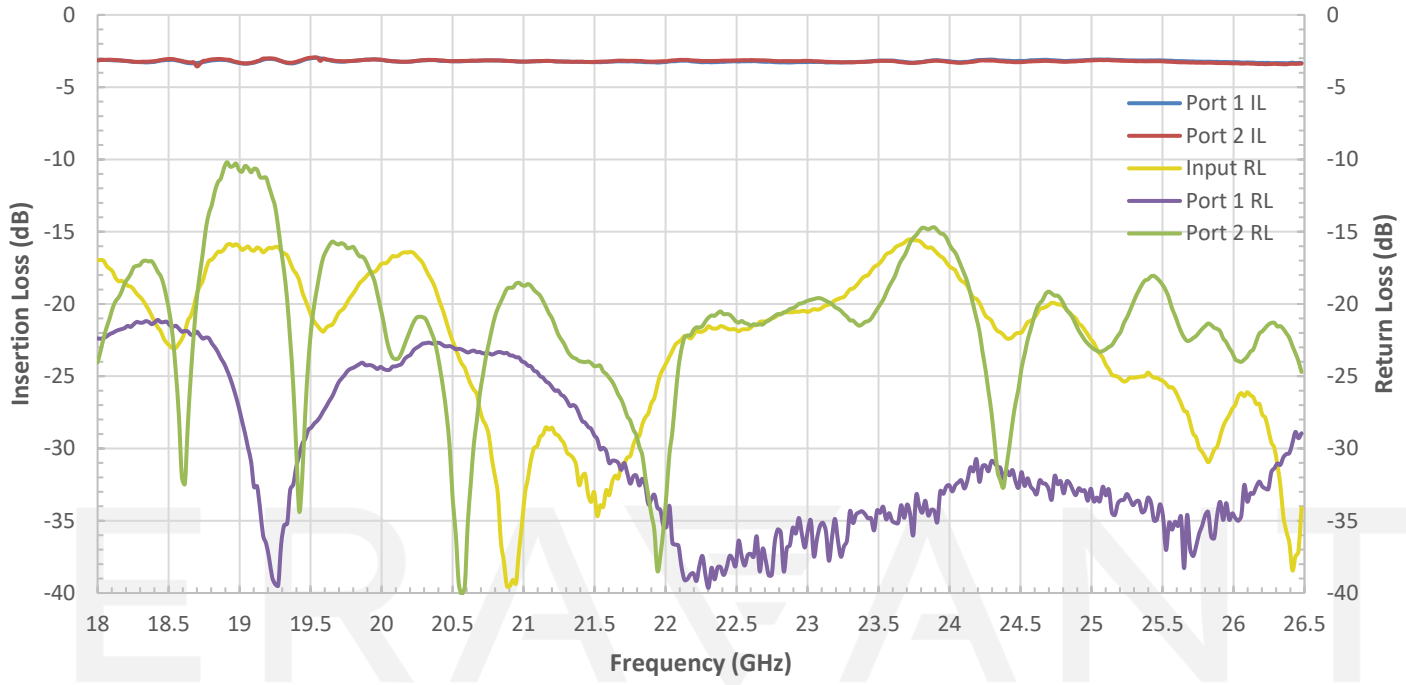
- Full Band Performance
- Low Insertion Loss
- High Isolation
- Right Angle (90°) Configuration
- Compact Package

APPLICATIONS

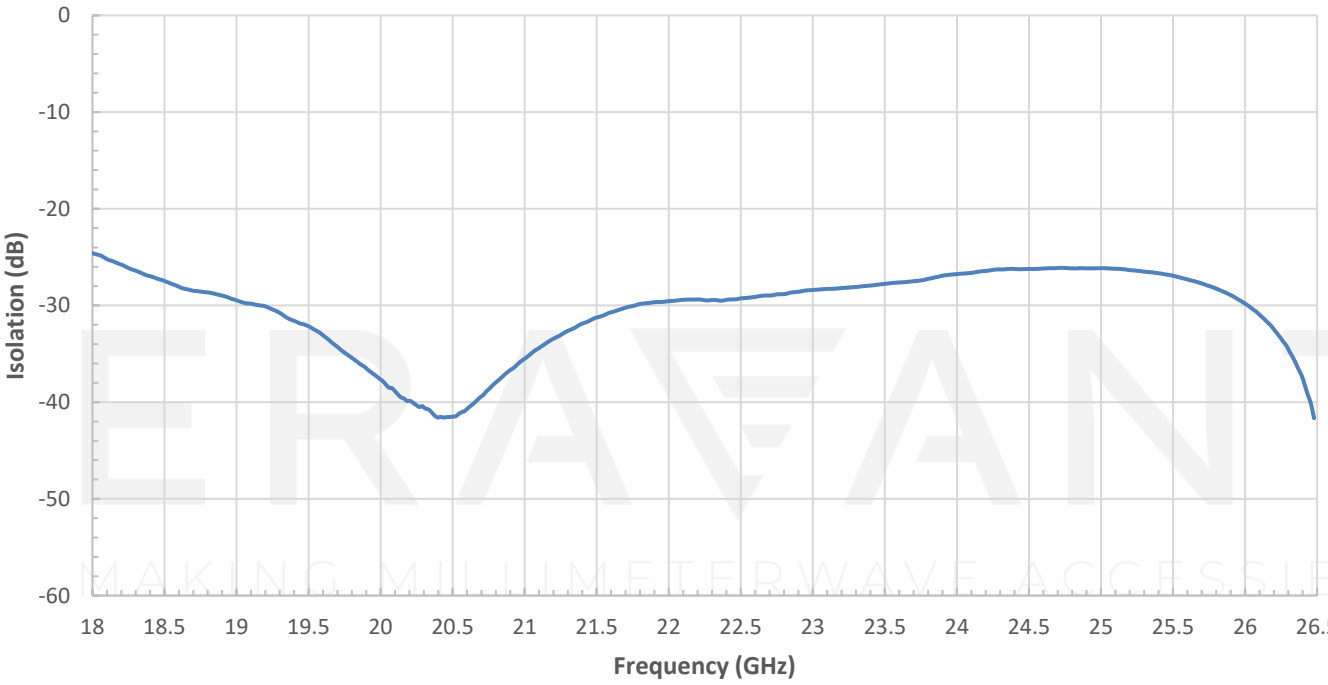
- Testing & Measurement
- Instrumentation
- Sub-assemblies
- Power Splitting and Combining

SUPPLEMENTAL DETAILS

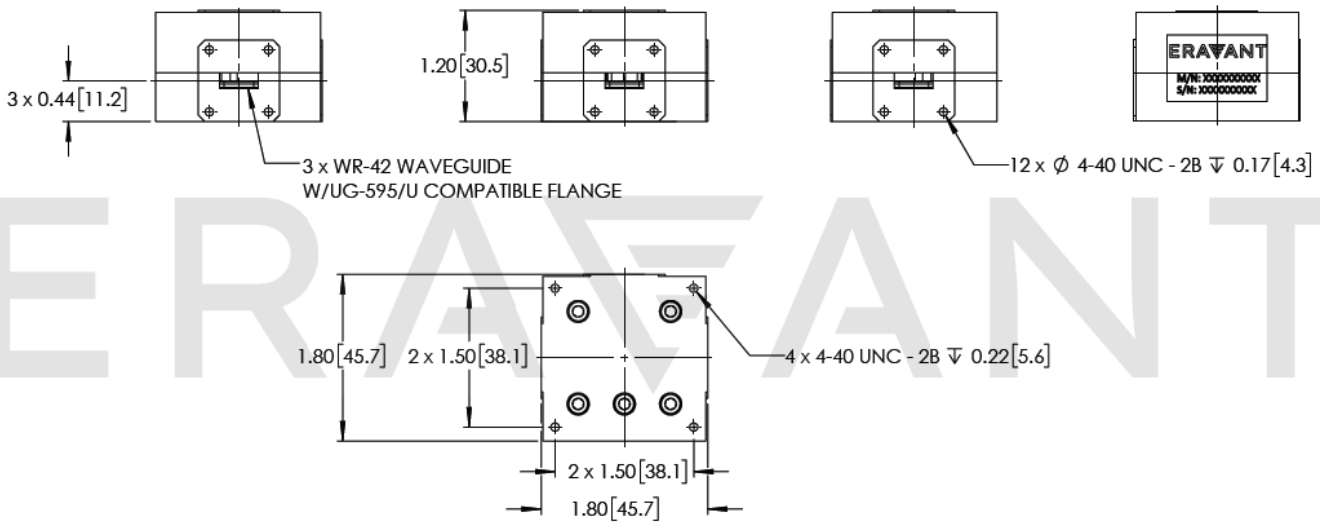
Typical Insertion Loss and Return Loss vs. Frequency



Typical Isolation vs. Frequency



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



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings shown will damage the device.
- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.