limeter, Inc

WR-19 Waveguide Power Divider, 4-Way, 40 to 60 GHz

电话:0512-62657975

Description:

Model SWP-40360304-19-E1-3 is a full band WR-19, 4-way power divider that operates from 40 to 60 GHz. The power divider offers a typical insertion loss of 1.0 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 an inline package with WR-19 waveguides and UG-383/U-M compatible anticocking flanges at all ports. The input or output



port orientation can be converted from a H-plane to E-plane configuration by installing Eravant's standard compact 90° twist, model SWB-19090-TB-C. A right angle, 4-way configuration is offered under model SWP-40360304-19-S1-3. Other power splitting options, such as 2-way, 8-way, and 16-way division, are available for both right-angle and inline configurations under different model numbers.

Features:

- **Full Band Performance**
- **Low Insertion Loss**
- **High Isolation**
- **Compact Package**

Applications:

- **Test Labs**
- **Test Instrumentation**
- Sub-assemblies
- **Twist Compatible**

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	40 GHz		60 GHz
Insertion Loss		1.0 dB	
Power Unbalance		±0.3 dB	
Adjacent Port Isolation		20 dB	
Non-Adjacent Port isolation		30 dB	
Return Loss		20 dB	
Specification Temperature	Illima	+25 °C	n c
Operating Temperature	-40 °C	recip ii	+85 °C

Mechanical Specifications:

Item	Specification
RF Ports	WR-19 Waveguide with UG-383/U-M Compatible Anti-Cocking Flange
Material	Aluminum
Finish	Gold Plated
Weight	14 Oz
Outline	WP-U4I-A-3



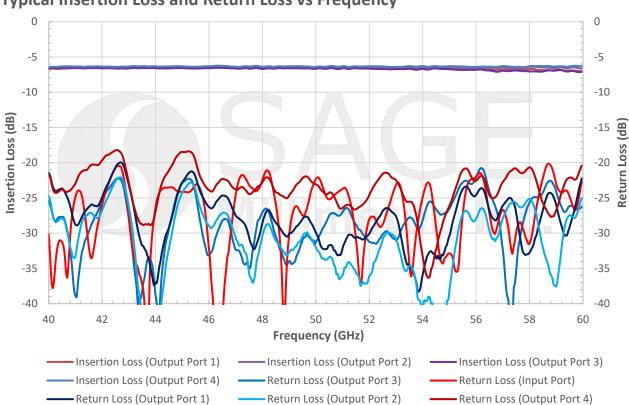
www.eravant.com | 501 Amapola Ave, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@eravant.com

Copyright © 2021 by Eravant Page | 1

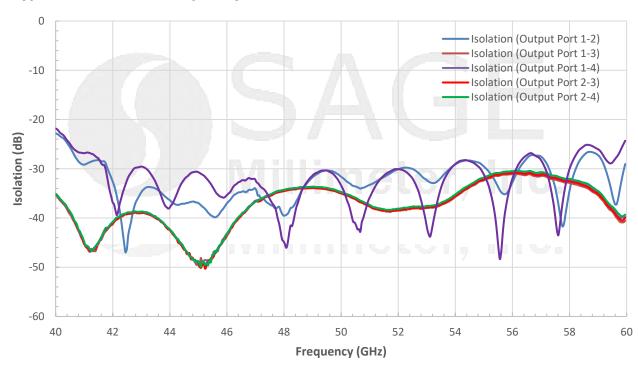
SWP-40360304-19-E1-3



Typical Insertion Loss and Return Loss vs Frequency



Typical Isolation vs Frequency



RoHS

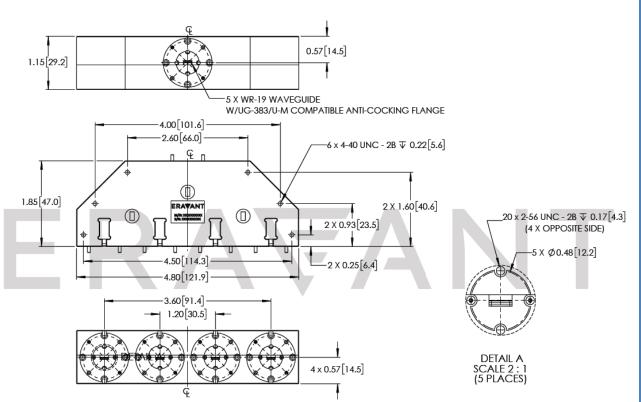
www.eravant.com | 501 Amapola Ave, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@eravant.com

Copyright © 2021 by Eravant

Advanced

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

电话:0512-62657975



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 °C case temperature.
- The compact 90° twist, model **SWB-19090-TB-C**, is sold separately.
- Eravant reserves the right to change the information presented without notice.

Caution:

- Exceeding absolute maximum ratings shown will damage the device.
- Any foreign objects in the waveguide will degrade performance and/or damage the device.

www.eravant.com | 501 Amapola Ave, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@eravant.com

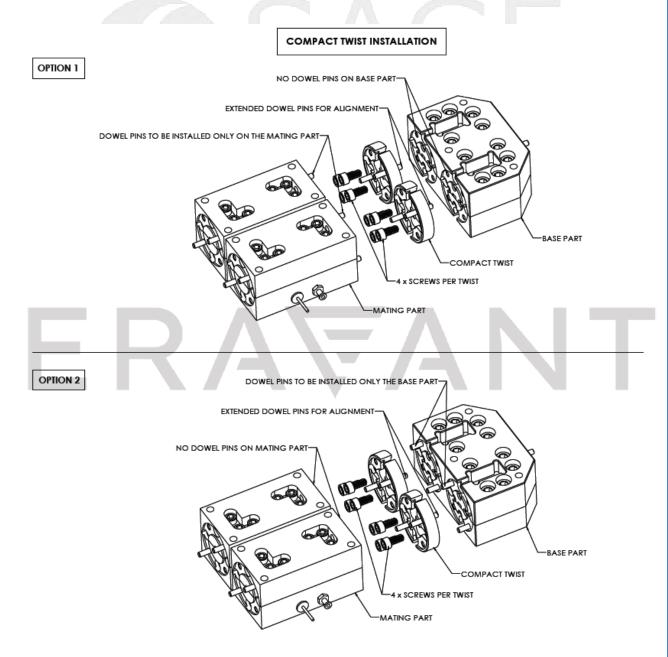
Advanced

SWP-40360304-19-E1-3

WR-19 Waveguide Power Divider, 4-Way, 40 to 60 GHz

Compact Twist Installation Diagram:

- The diagram below illustrates how to use the compact twist accessory to convert the ports on the power divider from H-plane orientation to E-plane orientation.
- There are two scenarios in which the compact twist can be used as shown below. In both cases, dowel pins cannot be installed on both the power divider and the mating part at the same time.





www.eravant.com | 501 Amapola Ave, Torrance, CA 90501 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@eravant.com