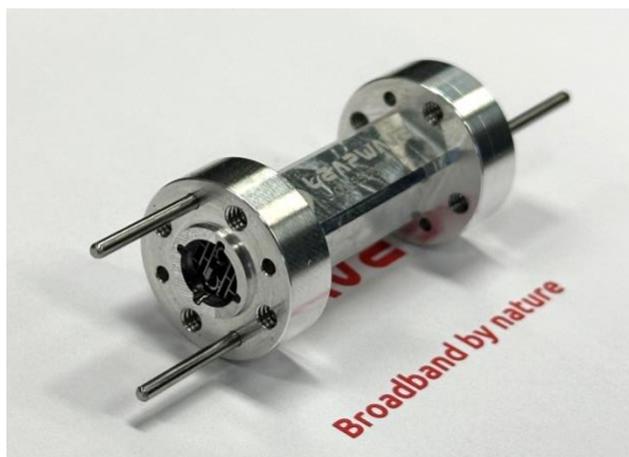


DRW500/40

Dielectric Rod Waveguide (DRW) Thru 40 mm

DRW500 is the first commercially ultra-broadband available dielectric rod waveguide (DRW) with flanged mating interface. The 40 mm long straight waveguide offers an exceptionally low insertion loss of under 0.15 dB/cm over the entire working frequency range of 50 to 500 GHz. Such broadband and low-loss performance is unmatched by standard rectangular waveguides. A precision metrology grade design ensures durability and repetitive connections.

DRW500 is part of *LeapWave's* connectivity ecosystem and is meant to provide connection between devices featuring *LeapWave* ports. The device is also ideal for connectivity in instrumentation and high-speed communications applications.



FEATURES

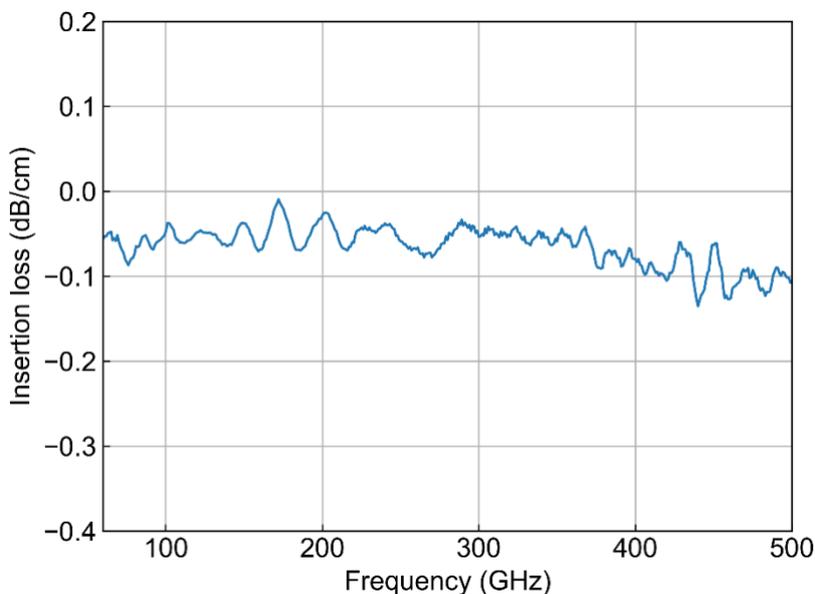
- Insertion loss < 0.15 dB in entire band
- Stable phase response
- Low dispersion
- Flange standard UG387/U compatible
- Instrumentation grade

Applications

- Instrumentation
- Device testing

PERFORMANCE DATA

Insertion Loss



ELECTRICAL SPECIFICATIONS

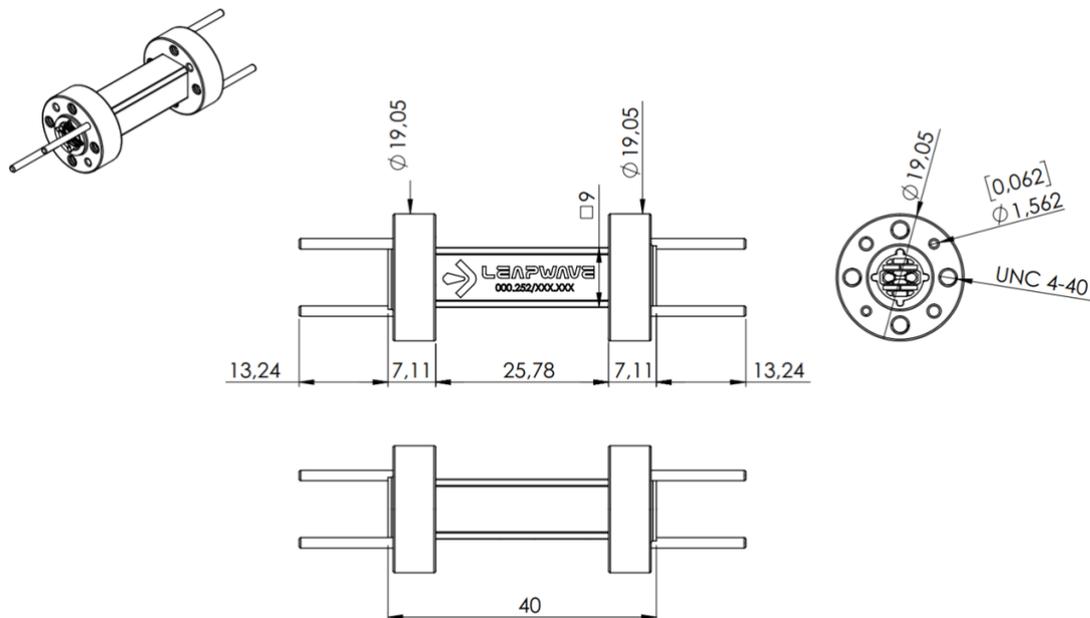
Item	Description
Frequency Range	50 to 500 GHz
Insertion Loss	< 0.15 dB/cm
Return Loss	Typical: < -15 dB
Specifications	25°C
Temperature	
Operating Temperature	TBD

MECHANICAL SPECIFICATIONS

Item	Description
Length	40 mm
Waveguide Interface	LeapWave port with UG 387/U flange
Waveguide Material	Intrinsic Silicon
Body	Aluminium
Surface Finish	N/A
Weight	30 g
Accessories	Protective caps

OUTLINE DRAWINGS

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



CAUTION

- Any contact between the LeapWave port interface and a foreign object may lead to either degradation of performance or destruction of the device.

ORDERING INFORMATION

Product Code: DRW500

Please contact for pricing. Specifications are subject to change without prior notice.