

CT/110

1 mm Coaxial Connector to Dielectric Rod Waveguide (DRW) Transition

CT/110 is the first commercially available adapter from 1mm coax connector to a low-loss silicon DRW (Dielectric Rod Waveguide). The frequency range of operation is 70 GHz to 110 GHz. It features the ultra-broadband *LeapWave port* that covers the spectrum continuously from 50 GHz to 500 GHz. The adapter is meant to provide connection between LeapWave ports and standard coax connectors. It is an end-launch adapter and comes in standard *LeapWave* form factor.

This adapter is ideal for connectivity in instrumentation applications with the devices featuring the ultra-broadband *LeapWave* port.

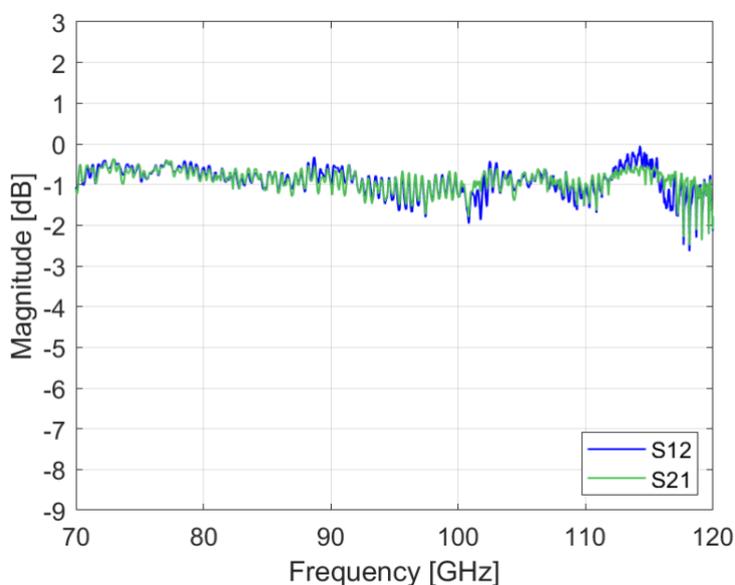


FEATURES

- Per device average insertion loss of < 1.5 dB.
- Stable phase response.
- Flange Standard UG387/U compatible.
- Instrumentation grade.
- DC short circuit.

PERFORMANCE DATA

Insertion Loss



Performance is measured by connecting two CT/110 adapters in back-to-back configuration by mating the LeapWave ports. The insertion loss is divided by two. The equipment used is a broadband vector network analyzer with 1mm (male) connectors.

ELECTRICAL SPECIFICATIONS

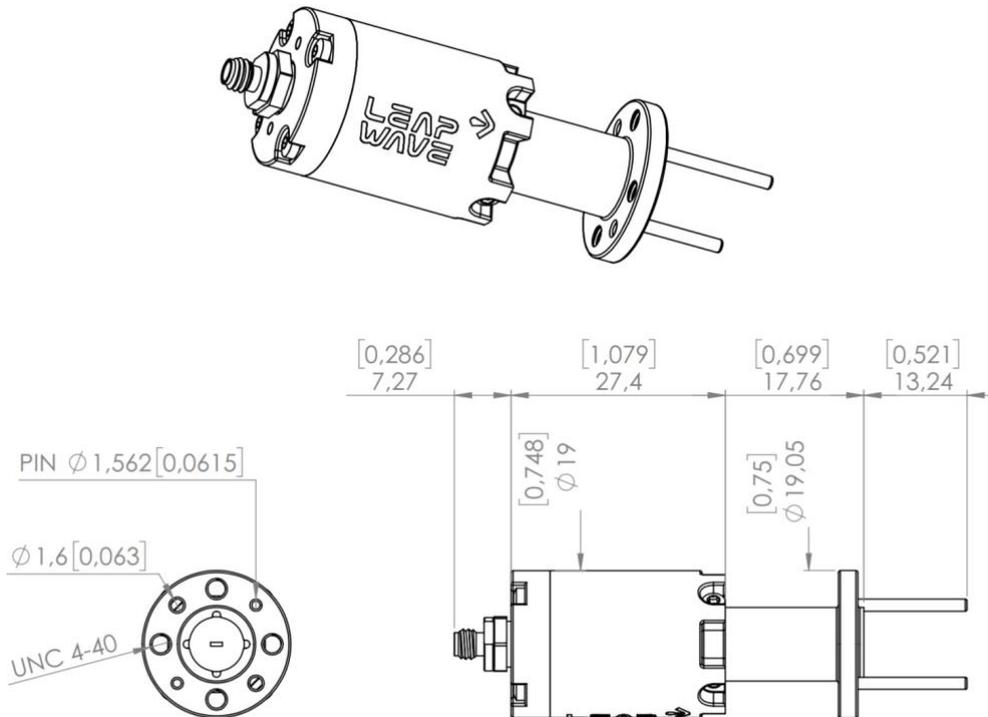
Item	Description
Frequency Range	70 to 110 GHz
Insertion Loss	Typical: 1 dB. Max: 1.5 dB
Return Loss	Typical: < -10 dB
Specifications Temperature	25°C
Operating Temperature	TBD

MECHANICAL SPECIFICATIONS

Item	Description
Waveguide Interface	LeapWave port with UG 387/U flange
Coax Connector	1 mm female
Material	Brass
Surface Finish	Gold
Weight	75 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: CT/110

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