

KEYSIGHT TECHNOLOGIES (AGILENT HP)

K281C

The Keysight K281C (formerly Agilent) is a high-performance waveguide-to-coaxial adapter designed to transition waveguide transmission lines to 50-ohm coaxial systems. Operating in the K-band from 18.0 to 26.5 GHz, it features an EIA WR-42 waveguide interface with a UG-597/U flange on one end, and a 3.5 mm female coaxial connector on the other. It offers a low SWR of less than 1.07 across the full waveguide band, and supports bi-directional power transmission.

SPECIFICATIONS

General Information

Adapter Type	Waveguide to Coaxial
Waveguide Band	K-band
Frequency Range	18.0 to 26.5 GHz
Nominal Impedance	50 Ohm
Geometry	Right Angle

Electrical Specifications

Frequency Range Minimum	18.0 GHz
Frequency Range Maximum	26.5 GHz
Maximum SWR	1.15
Transmission Direction	Bi-directional

Connector 1 Specifications

Connector 1 Series	3.5 mm
Connector 1 Gender	Female
Connector 1 Impedance	50 Ohm

Connector 2 Specifications

Connector 2 Waveguide Size	EIA WR-42
Connector 2 Waveguide Standard Compliance	MIL-W-85/1-103
Connector 2 Flange Designator	UG-597/U
Connector 2 Flange Standard Compliance	MIL-F-3922/54C-002

TECHNOLOGY

Waveguide to Coaxial Adapter

APPLICATIONS

RF and Microwave Test and Measurement

