

A passive ultra-wideband tapered-slot (Vivaldi) directional antenna covering 0.4–10 GHz with $S_{11} \leq -10$ dB across the full band and peak gain of 10.2 dBi at 4.6 GHz. No power required — ideal for RF lab testing, spectrum monitoring, wideband detection and UWB communications.



Features

- Frequency range: 0.4–10 GHz(-10dB, S_{11})
- Gain: - 0.4GHz: -5.2dB; - 3.6GHz: 9.5dB; - 4.6GHz(full-band peak): 10.2dB; - 6.8GHz: 9.3dB; - 10GHz: 6.9dB
- VSWR: 1.1–1.5(typical, in-band)
- Connector: SMA-K (female)
- Ultra-wideband tapered-slot (Vivaldi), passive, no power required

Applications

Ultra-wideband spectrum monitoring, RF lab and VNA testing, wideband detection, electronic warfare and UWB positioning.

Specifications

Parameter	Specification
Usable Frequency Range	0.4–10 GHz(-10dB, S_{11})
Return Loss	below -10dB(see S_{11} Fig.)
Gain	- 0.4GHz: -5.2dB; - 3.6GHz: 9.5dB; - 4.6GHz(full-band peak): 10.2dB; - 6.8GHz: 9.3dB; - 10GHz: 6.9dB
Impedance	50 Ω
VSWR	1.1–1.5(typical, in-band)
Connector	SMA-K (female)
Antenna Type	Planar Vivaldi (tapered-slot), passive directional
Dimensions	150mm*200mm*1.6mm
Weight	90g