110 GHz 2×8 Vertical PCB Multi-Port Connector

Sixteen 50 Ω channels | 2.54 mm contact pitch

P/N: VST-TWS90J1-16

PRODUCT OVERVIEW

A 16-channel vertical PCB connector providing independent 50 Ω signal paths in a compact 2×8 interface. Its 2.54 mm contact pitch and screw-retained stiffener support high-density board-level RF and mmWave test interconnects.



DC–110 GHz	2×8	2.54 mm	Vertical
FREQUENCY	CHANNELS	CONTACT PITCH	PCB MOUNTING

KEY FEATURES

- Sixteen 50 Ω paths in one compact 2×8 interface
- DC–110 GHz operation for RF / mmWave test access
- Gold-plated BeCu contacts with PEEK dielectric
- Vertical mounting for dense PCB layouts
- Screw-retained stiffener for board installation
- ≥1,000 mating cycles for repeated use

TECHNICAL SPECIFICATIONS

ELECTRICAL	
Frequency range	DC–110 GHz
Nominal impedance	50 Ω / channel
Return loss, DC–70 GHz	≥ 15 dB
Return loss, 70–110 GHz	≥ 10 dB
Insertion loss	≤ 0.1√f dB[1]
Insulation resistance	≥ 5,000 MΩ
Working voltage	500 Vrms

MECHANICAL / ENVIRONMENTAL	
Channel arrangement	2×8 / 16 channels
Contact pitch	2.54 mm
Board mounting	Vertical
Mating durability	≥ 1,000 cycles
Mounting fastener	M1 × 4 (8 pcs)
Mounting torque (kgf·cm)	0.6 kgf·cm
Working temperature	−40 °C to +120 °C

[1] f = frequency in GHz. RoHS compliant. Specifications per TWS90J1-16 drawing, rev. V2.0.

CONSTRUCTION Gold-plated brass body · Gold-plated BeCu center contacts · PEEK insulator · Passivated stainless-steel parts