



Versatile Microwave and High Speed Test Solutions
for 5G and 6G Wireless Communication

Company Overview



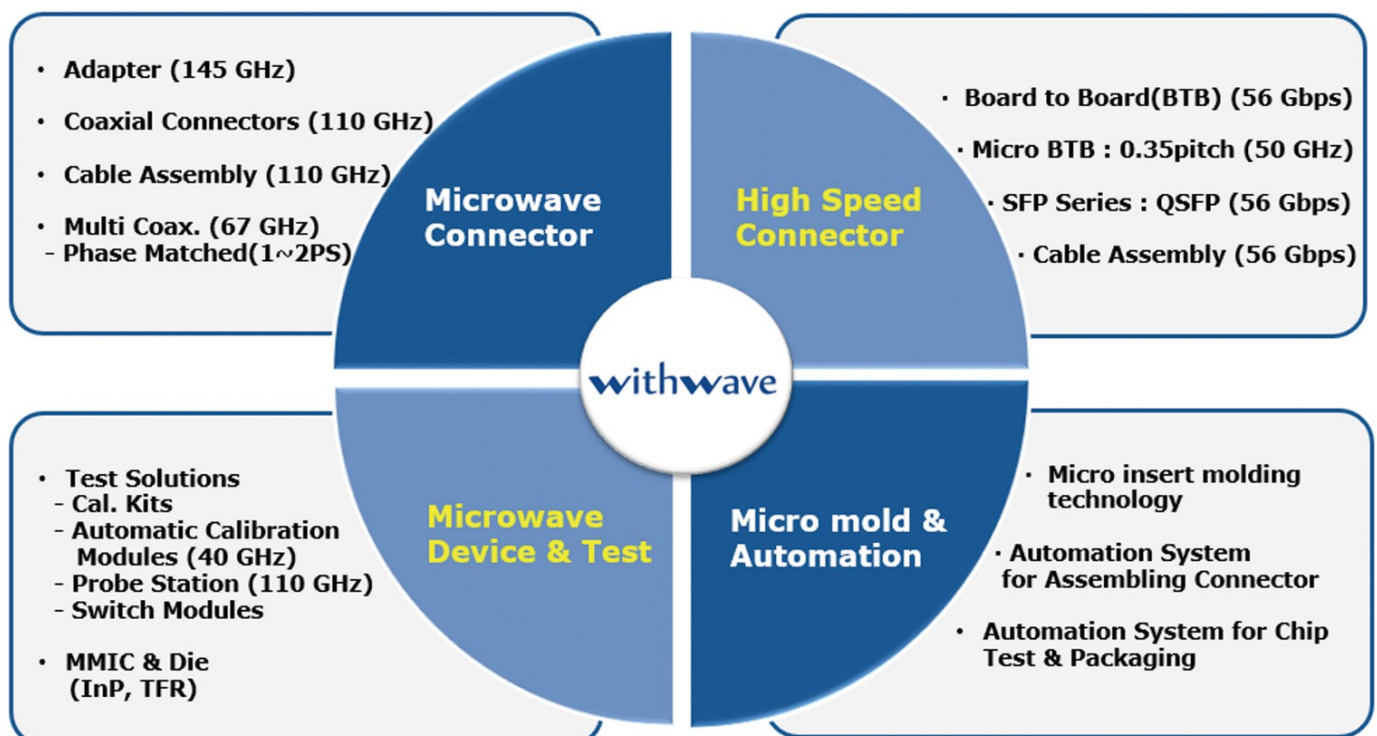
Withwave believe people matter, and taking care of our customers and our employees is paramount in how we approach our business.

We puts people first with a commitment to exceptional service, quality products, innovative technologies and convenient design tools. We are committed to globally interconnecting service and technology to take the industry further faster.

Withwave maintains its competitiveness by continuously innovating products and services in an environmentally beneficial and sustainable manner. We add new technologies and abilities to our portfolio of competences to ensure our long-term success.



Core technologies of WithWave for Microwave & High speed total solution

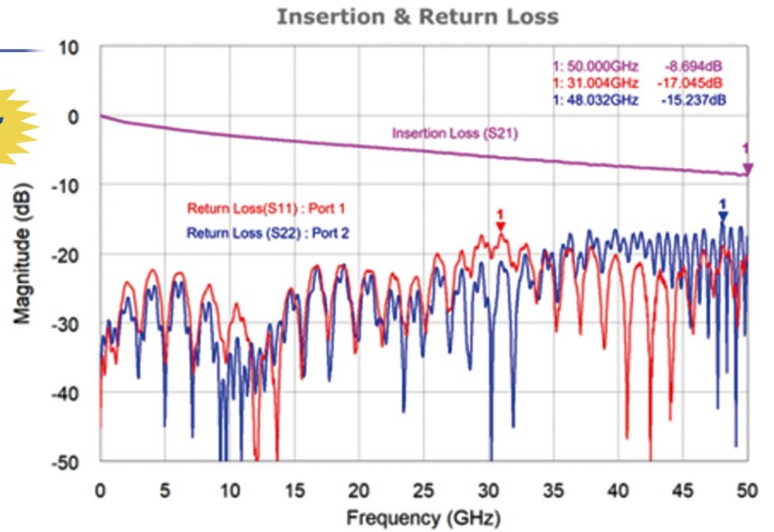


ISO 9001, 14001 CERTIFIED

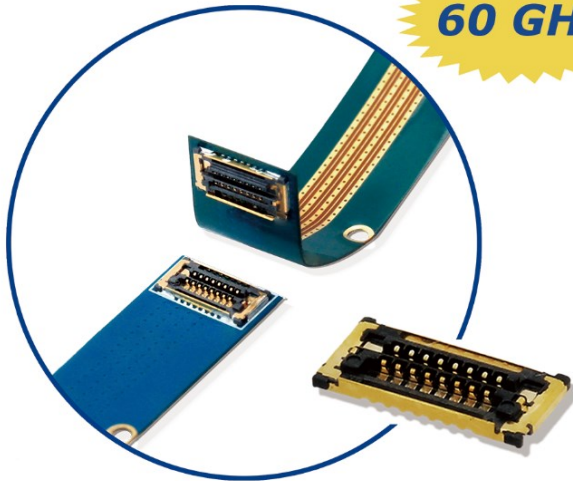
Multi Coaxial Type



67 GHz



Hermaphroditic Type

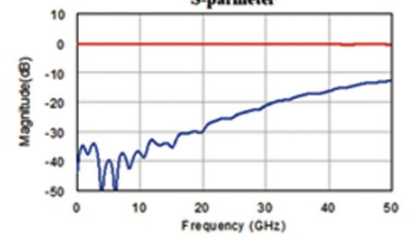


60 GHz

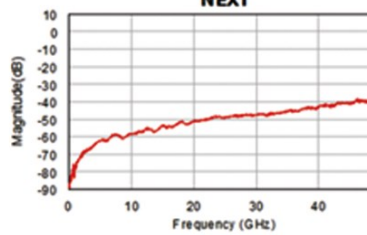
Pin assignment



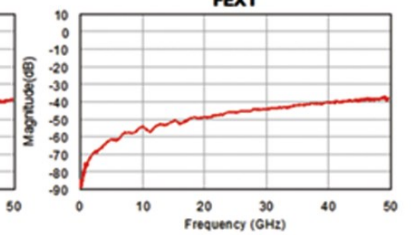
S-parameter



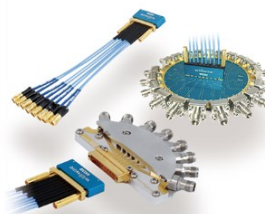
NEXT



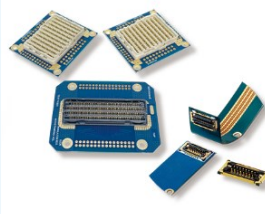
FEXT



• Multicoax Cable Assemblies 67 GHz



• High Speed Connectors 56 Gbps



• Microwave Connectors & Adapters 145 GHz

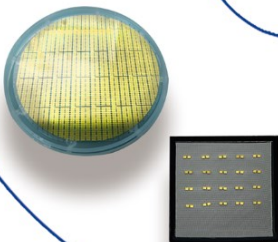


• Microwave Cable Assemblies 145 GHz



withwave

• Millimeter wave Chip & Die



• Test Accessories 40 GHz



• Calibration Kits & Modules 26.5 GHz



• Switch Modules & Antenna 44 GHz



Product lineup

Microwave Connector

- Wave Launch Connector : SMA, 2.92 mm, 2.4 mm, 1.85 mm
- Vertical Launch Connectors : SMA, 2.92 mm, 2.4 mm, 1.85 mm, 1.0 mm (110 GHz)
- End Launch Connectors : SMA, 2.92 mm, 2.4 mm, 1.85 mm
- End Launch Connectors (Narrow Block) : SMA, 2.92 mm, 2.4 mm, 1.85 mm, 1.0 mm (110 GHz)



Precision Adapters

- SMA, N, 2.92 mm, 3.5 mm, 2.4 mm, 1.85 mm, 1.0 mm, 0.8 mm (145 GHz) in series & between series
- Straight types & Right Angle types



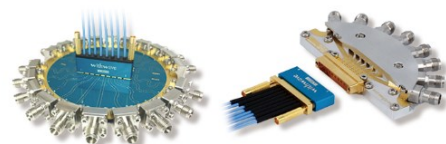
Microwave Cable Assembly

- Ultra Low loss (W1 Series) : SMA, 2.92 mm, 3.5 mm, 2.4 mm
- High Performance (W2 Series) : SMA, 2.92 mm, 2.4 mm, 1.85 mm
- Phase Stable (WT Series) : 2.92 mm, 2.4 mm, 1.85 mm, 1.0 mm
- Push on : SMP/SMPM to 2.92 mm, 2.4 mm



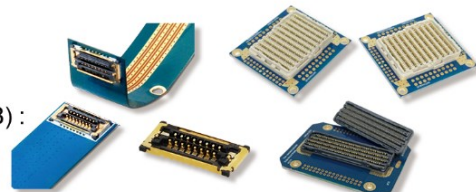
Muti Coaxial Cable Assembly

- High Speed MultiCoax Cable Assemblies (WMX Series) : 20, 40, 50, 67 GHz
- High Speed MultiCoax Cable Assemblies (WMX, BES type): 20, 40, 50 GHz



High Speed Connector

- High Speed Connector (0.9 & 1.0 mm Pitch System) : 56 Gbps NRZ, 112 Gbps PAM-4
- High-speed & Micro-miniature Board to board connector (HMB) : DC to 50 GHz



Calibration Kits & Test Probe

- Mechanical Calibration Kits : N-type(6 GHz), 3.5 mm(9 GHz)
- Automatic Calibration Modules : 2- & 4- ports
- T-Probe (Pogo type) : GSG, GS type



RF Switch Module

- Absorptive Switch Modules
- SP4T (10, 18, 44 GHz)
 - SP8T (8 GHz)
 - SP10T (18, 44 GHz)
 - SP12T(44 GHz)



Absorber Sheet

- LS Series (< 6 GHz)
- MD Series (< 24 GHz)
- HS Series (< 40 GHz)
- MT Series (< 18 GHz)
- HT Series (< 40 GHz)
- MS Series (< 18 GHz)

