Test Boards for Edge Launch Connectors
(40 GHz and 70 GHz)

Broadband Test Verification Boards (40 GHz and 70 GHz)

Adapters
1.85 mm (70 GHz)

“xxx” is a placeholder to define frequency range depending on connector types.

40 GHz Test Board Part Numbers:
007-007-1Fn 1" Microstrip
007-007-2Fn 2" Microstrip
008-008-1Fn 1" Grounded Coplanar Waveguide (GCPWG)
008-008-2Fn 2" Grounded Coplanar Waveguide (GCPWG)

70 GHz Test Board Part Numbers:
020-020-1Fn 1" Microstrip
020-020-2Fn 2" Microstrip
021-021-1Fn 1" Grounded Coplanar Waveguide (GCPWG)
021-021-2Fn 2" Grounded Coplanar Waveguide (GCPWG)

Vias thru 8 mil RO 4003
Vias not thru FR-4 backer
80 mil FR-4
8 mil RO 4003

Typical test data is shown in the Edge Launch Connector section. Demo boards are also available with sample connectors and test data.

All test board launch designs are available at no charge in .pdf and .dxf formats
1" and 2" length microstrip and grounded coplanar waveguide (GCPWG) boards available
Available in both 40 GHz and 70 GHz versions

1.85 mm Interfaces
Versions available with push-on 1.85 mm interfaces
70 GHz Bandwidth
Standard 5/16" Wrench Flat on Housing
Gold Plated Housing
Custom Housing Configurations Available

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Edge Launch Connectors

**ELF110** 1.0 mm (110 GHz) Edge Launch Connectors

- Common Interface: ELF110
- Narrow Profile: ELF110-001
- Standard Profile: ELF110-002

**ELF67** 1.85 mm (67 GHz) Edge Launch Connectors

- Common Interface: ELF67
- Narrow Profile: ELF67-001
- Standard Profile: ELF67-002

**ELF50** 2.40 mm (50 GHz) Edge Launch Connectors

- Common Interface: ELF50
- Narrow Profile: ELF50-001
- Standard Profile: ELF50-002

**Edge Launch Key Features:**
- No Soldering Required
- Top Ground Only
- Board Design Support Available
- Test Boards Available

2" Microstrip test board with typical data through 70 GHz

2" Microstrip test board with typical data through 50 GHz

Complete mounting hardware guidelines available on our website.
**ELF40** 2.92 mm (40 GHz) Edge Launch Connectors

- Common Interface: **ELF40**
- Narrow Profile: **ELF40-001**
- Standard Profile: **ELF40-002**

**Field Replaceable Connectors**

**FRF40** 2.92 mm (40 GHz)

- 2.92 mm Interface
- Standard 2 & 4 Hole Flanges
- 40 GHz Bandwidth
- Rear Socket for 12 mil pin
- Low VSWR: DC – 27.0 GHz: 1.10:1
  27.0 – 40.0 GHz: 1.15:1
- Temp Range: -55º to +105º
- DFARS Compliant

**Vertical Launch Connectors**

**VLF40** 2.92 mm (40 GHz)

- 40 GHz Bandwidth
- 2.92 mm Connector for high speed digital industry with superior electrical performance
- Compression fit, screw-on mounting, does not require soldering
Test Boards for Edge Launch Connectors  
(40 GHz and 70 GHz)

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- Available in both 40 GHz and 70 GHz versions

Typical test data is shown in the Edge Launch Connector section. Demo boards are also available with sample connectors and test data.

Broadband Test Verification Boards  (40 GHz and 70 GHz)

Part No. 907-xxx-10075

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Adapters  1.85 mm (70 GHz)

- 1.85 mm interfaces
- Versions available with push-on 1.85 mm interfaces
- 70 GHz Bandwidth
- Standard 5/16” Wrench Flat on Housing
- Gold Plated Housing
- Custom Housing Configurations Available