

HIGH-FREQUENCY PRECISION TEST ADAPTERS

NPI INNOVATION

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molex

HIGH-FREQUENCY PRECISION TEST ADAPTERS

Molex offers a broad line of high-frequency within series and between series adapters. Interfaces include 2.92mm (40 GHz), 2.40mm (50 GHz), 1.85mm (67 GHz) and 1.00mm (110 GHz).

Key Product Information

Category: High-frequency within series and between series adapters



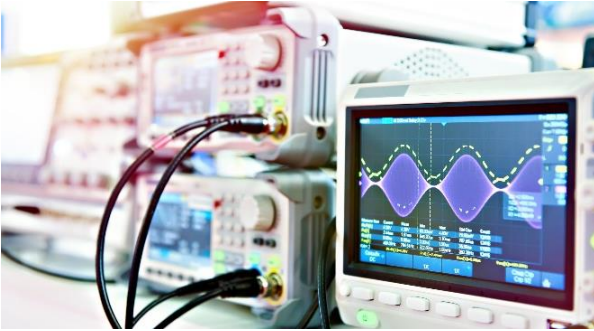
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Series

73157	67 GHz 1.85mm to 1.85mm Adapters
73164	110 GHz 1.00mm to 1.00mm Adapters
73252	40 GHz 2.92mm to 1.85mm and 2.92mm to 2.92mm Adapters
73386	50 GHz 2.40mm to 1.85mm and 2.40mm to 2.92mm Adapters; 67 GHz 1.85mm to 1.00mm Adapters
73387	50 GHz 2.40mm to 2.40mm Adapters

MARKETS AND APPLICATIONS



Telecommunications and Networking

- Network systems
- Testing and instrumentation
- Automated test equipment
- Wireless communications
- 5G applications
- High-speed data transmission



Commercial Aviation

- Aerospace
- Satellites



Internet of Things (IoT)

- Smart appliances
- Home security systems
- Smart farming
- Patient monitoring

SOLVING INDUSTRY CHALLENGES

Industry Need	Industry Challenge	Industry Solution	Anticipated Results
Adaptability	Customers want the right adapters on hand for all test and measurement needs.	Off-the-shelf high-frequency adapters from a single vendor are available through multiple distributors.	Shorter lead times and reduced risk of supply chain problems are available while maintaining consistent quality.
Accurate, repeatable results	Finding the right precision adapter can be difficult.	Molex offers a wide range of within series and between series adapters ranging from 40 to 110 GHz.	Tested and proven high-frequency adapters with outstanding electrical performance ensure accurate, repeatable results.
Finding reasonably priced adapters at low volume	Some purchasers may sacrifice quality over price due to the cost of high-frequency adapters.	Molex high-frequency adapters are reasonably priced for the market and provide excellent performance.	Cost savings can be achieved without sacrificing performance.

PRODUCT FEATURES AND ADVANTAGES

Within and between series available

Offer any combination for every situation

Intermateability

Provides design flexibility, making it possible to mate 2.40mm with 1.85mm connectors or mate 2.92mm connectors with SMA or 3.50mm connectors

Off-the-shelf solutions

In stock at multiple distributors

Wide frequency ranges

Offer a range of capabilities, with frequencies ranging from 40 GHz up to 110 GHz, depending on the interface used

Excellent electrical performance

Ensures accurate, repeatable results

Precision machined interfaces

Are ideal for precise laboratory measurements



67 GHz 1.85 to 1.85mm Adapter



67 GHz 1.85 to 1.00mm Adapter



50 GHz 2.40 to 1.85mm Adapter

Key Specifications	
Impedance	50 Ohms
Operation Frequency	1.00mm: DC to 110 GHz 1.85mm: DC to 67 GHz 2.40mm: DC to 50 GHz 2.92mm: DC to 40 GHz
VSWR (max.)	1.00mm: 1.3:1 @ 110 GHz 1.85mm: 1.2:1 @ 67 GHz 2.40mm: 1.3:1 @ 50 GHz 2.92mm: 1.2:1 @ 40 GHz

SPECIFICATIONS AND SUPPORTING INFORMATION

Reference Information

Designed in: Millimeters

RoHS: Yes

Electrical

Impedance: 50 Ohms

Operation Frequency

1.00mm: DC to 110 GHz

1.85mm: DC to 67 GHz

2.40mm: DC to 50 GHz

2.92mm: DC to 40 GHz

VSWR (max.)

1.00mm: 1.3:1 @ 110 GHz

1.85mm: 1.2:1 @ 67 GHz

2.40mm: 1.3:1 @ 50 GHz

2.92mm: 1.2:1 @ 40 GHz

Physical

Dielectric: Ultem

Contact: Brass, Gold plated

Body: Passivated Stainless Steel

Additional Resources

Web Overview Page	https://www.molex.com/molex/products/family/bsa
Datasheet	987652-5711.pdf (molex.com)
Training Presentation	High-Frequency Precision Test Adapters PRES.pdf
Product Specifications	Part Details.pdf (series 73157)



THANK YOU

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