

# HIGH FREQUENCY RF CONNECTORS & ADAPTORS: 90GHZ AND 110GHZ

## PRODUCT DESCRIPTION

TE Connectivity's (TE) new 90GHz and 110GHz High Frequency RF Connectors & Adaptors provide low insertion loss, industry leading voltage standing wave ratio (VSWR), and other mechanical and electrical functions to meet the needs of 5G, ATE, bench top, module, wireless devices, and radar in test and measurement, AD&M, and wireless industries. These high frequency RF connectors and adaptors support up to 110GHz and can provide the reliable, high performance required by test & measurement and other demanding applications.



## APPLICATIONS

- 5G
- ATE (Automated Test Equipment)
- Bench top
- Module
- Wireless devices
- Amplifiers, couplers, dividers, mixers, relays, attenuators, fitters, antennas
- Radars (radio detection and ranging)

## BENEFITS

- Industry Leading Performance: High frequency performance up to 110GHz. Extremely low insertion loss and VSWR.
- Competitive Price & Fast Delivery: Our engineering and manufacturing expertise and global footprint enable competitive pricing and fast delivery
- Broad Portfolio: Portfolio includes a large breadth of RF connectors and adaptors with frequencies up to 110GHz (2.92mm, 3.5mm, 2.0mm, 1.85mm, 1.35mm, 1.00mm).
- Custom configurations available upon request

# 90GHZ AND 110GHZ HIGH FREQUENCY RF CONNECTORS & ADAPTORS

## PRODUCT SPECIFICATIONS

- Operating Frequency: 110GHZ & 90GHZ
- Nominal Impedance: 50 ohms
- VSWR (Max.) typically:
  - <1.25 @ DC 6-GHz
  - <1.35 @ 67-110GHz
- Product Spec: 108- 160152
- Insertion loss:  $0.05 \cdot \sqrt{f}$  dB
- Temperature Rating: -40°C to +85 °C
- Durability: 500 cycles
- Meets standard MIL-STD-348B, IEC 60169-15

## Connectors and Adaptors Product Offering

Description	TE Part Number
1.85MM MALE TO 1.35MM MALE ADAPTOR	2385340-1
1.85MM MALE TO 1.35MM FEMALE ADAPTOR	2385341-1
1.35MM MALE TO 1.35MM MALE ADAPTOR	2385342-1
1.35MM FEMALE TO 1.35MM FEMALE ADAPTOR	2385343-1
1.35MM MALE TO 1.35MM FEMALE ADAPTOR	2385344-1
1.35MM FEMALE TO 1.0MM MALE ADAPTOR	2385345-1
1.35MM FEMALE TO 1.0MM FEMALE ADAPTOR	2385346-1
1.35MM MALE TO 1.0MM FEMALE ADAPTOR	2385347-1
1.35MM MALE TO 1.0MM MALE ADAPTOR	2385349-1
1.35MM FEMALE S-T FOR PCB	2385352-1
1.0MM FEMALE TO 1.0MM FEMALE ADAPTOR	2388687-1
1.0MM MALE TO 1.0MM MALE ADAPTOR	2081773-1
1.0MM MALE TO 1.0MM FEMALE ADAPTOR	2081774-1

## te.com

TE, TE Connectivity and TE connectivity (logo) are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2021 TE Connectivity Ltd. family of companies All Rights Reserved.

08/21 Original