

# 3.5mm (QT3.5mm™) Quick Test Adapters

DATA SHEET / 2B-060



# 3.5mm (QT3.5mm™) Quick Test Adapters

8006 SERIES (U.S. PATENT NO. 6,210,221)

## Description

The QT3.5mm™ male connector incorporates a quick connect design that provides for a push-on/pull-off capability that mates with any commercially available 3.5mm connectors. The optional quick 1-1/2 turn twist nut combines the best of both worlds allowing quick connect or disconnect with the increased accuracy of a thread-on connector. In addition to the no nut and quick turn nut designs, a guide sleeve configuration is available to provide a self-aligning capability required in automated test stations.

The push-on connector offers excellent repeatability and long life making these adapters ideal for use in a production environment. The nut can also be torqued to 8 in. lbs making them suitable for test port applications where a calibration is required. The connectors come in four configurations: no nut, a 3/8" diameter nut, a 9/16" diameter nut, and a guide sleeve configuration.

## Features

- > Quick, Easy Push-On/Pull-Off Design
- > Designed for Durability and Long Life (3,000 Connect/Disconnect Cycles)
- > Excellent Repeatability/Low VSWR
- > Guide Sleeve Design for Automated applications



8006E1  
No Nut

8006E11  
3/8" Nut

8006E21  
9/16" Nut

8006Q1  
Guide Sleeve

## Repeatability\*

| MODE                 | DC — 18 GHz | 18 — 26.5 GHz |
|----------------------|-------------|---------------|
| Push-On              | > 40 dB     | > 40 dB       |
| Torqued to 8 in. lbs | > 50 dB     | > 50 dB       |
| Hand Torqued         | > 50 dB     | > 50 dB       |

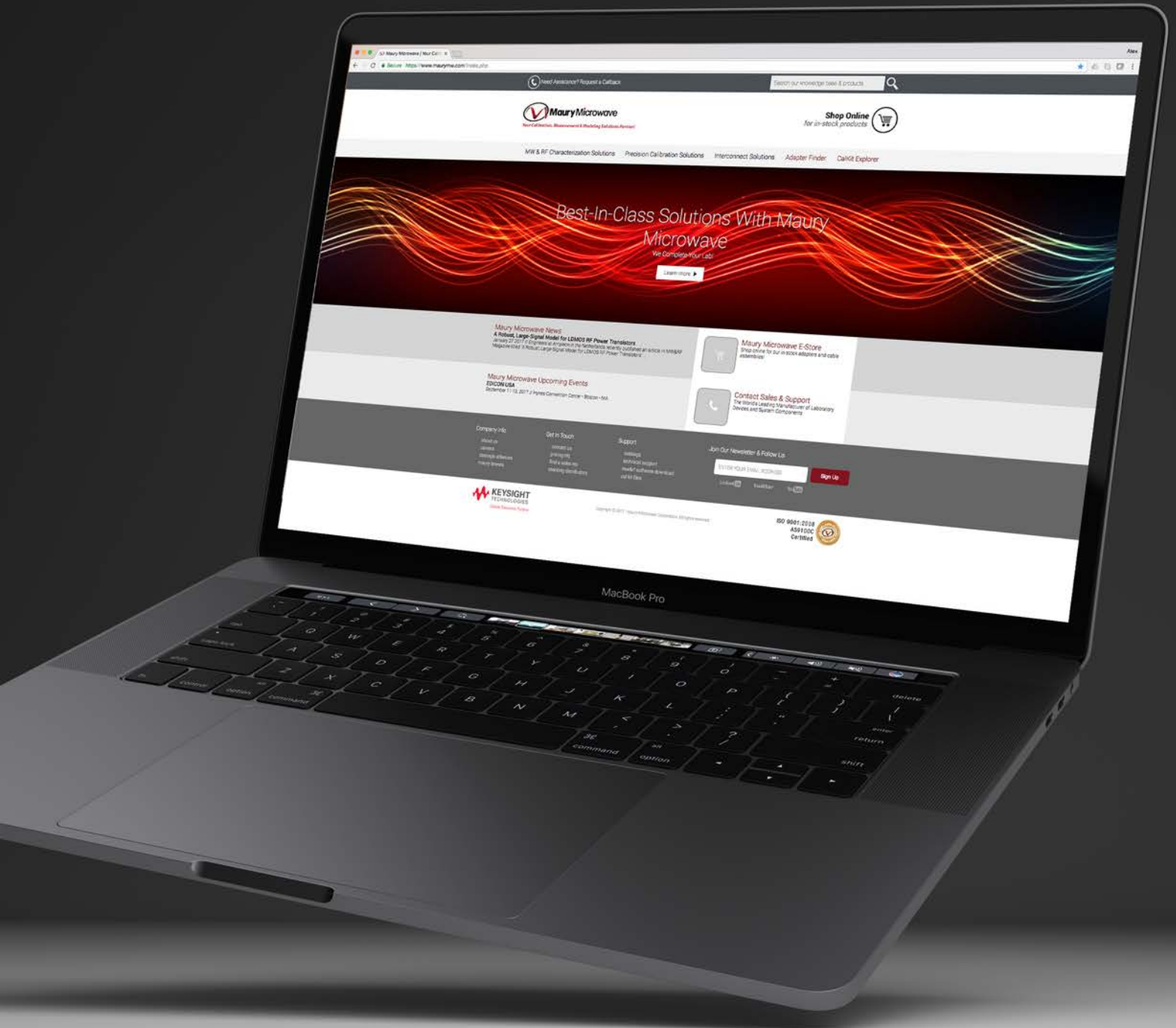
\*Repeatability is based on a minimum of 3,000 connect/disconnect cycles.

## Available Models

| MODEL   | ADAPTS                               |           | FREQUENCY RANGE (GHz)  | MAXIMUM VSWR (GHz) |
|---------|--------------------------------------|-----------|------------------------|--------------------|
|         | SIDE A                               | SIDE B    |                        |                    |
| 8006E1  | QT3.5mm™ (m) with no nut             | 3.5mm (f) | DC — 26.5 <sup>1</sup> | DC — 16.0 ≤ 1.05   |
| 8006E11 | QT3.5mm™ (m) with 3/8" diameter nut  |           |                        | 16.0 — 26.5 ≤ 1.08 |
| 8006E21 | QT3.5mm™ (m) with 9/16" diameter nut |           |                        | 26.5 — 34.0 ≤ 1.12 |
| 8006Q1  | QT3.5mm™ (m) guide sleeve            |           |                        |                    |

<sup>1</sup> Slightly reduced VSWR specifications to 34 GHz.

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