

Quick Change (QC) Adapter Series

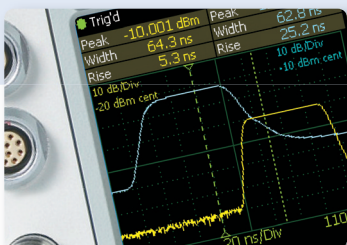


a division of WINCHESTER
ELECTRONICS



Quick Change (QC) Series Adapters

- Allows rapid adapter configuration changes without performance degradation
- Broad range of standard connector interfaces
- Common mounting QC coupler block makes rapid adaptation easy
- Mid-High power capability up to 1 GHz
- Ideal for lab and production monitoring equipment



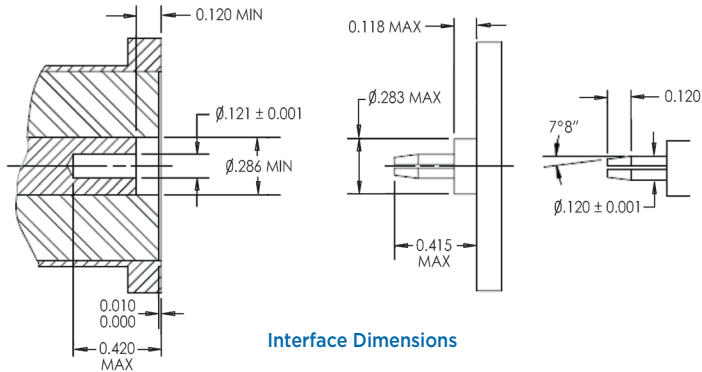
TRU Corporation offers Quick Change (QC) adapters for both commercial and military applications with a wide array of standard product for rapid availability. These quick-change RF adapters are designed for use with high-power testing and monitoring equipment as well as specialty altimeters.

QC adapters are ideal in lab and production environments where on-site connector changes are accomplished by simply removing screws from the mounting flange and attaching the connector style that matches your equipment interface under test. Through use of the consistent QC Interface, changes can be made rapidly without affecting the consistency of the test results. QC adapters represent a quick and easy means to match your test monitoring devices with the equipment under test without concern for performance-degradation or lack of repeatability.

In addition to the broad range of standard QC configurations in this series, TRU can provide custom design solutions for your specific application requirements. Our experienced Sales and Applications Engineering teams are available to personally work with your design team to answer technical questions.

Visit our website or contact your local authorized Distribution office for additional support and product information.

Quick Change (QC) Adapter Series



Quick Change (QC) Adapter System



QC Adapter A

QC Coupler Block

QC Adapter B

QC Adapter Specifications

Electrical

Nominal Impedance	50 Ohms
Frequency Range	See frequency graph
Voltage Range	2,700 volts rms
Dielectric Withstanding Voltage	4,000 volts rms
Insulation resistance	10,000 Megohms
Power Rating	See power graph

Mechanical

Mating Characteristics	per TRU standards
Connector Durability	500 cycles minimum

Environmental

Temperature Range	-65 to +165°C
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Materials/Finishes

Body	Brass, silver or nickel plated
Contacts (inner)	Female: Beryllium copper, silver or gold plating Male: Brass, silver or gold plated
Contacts (outer)	Brass, silver or nickel plated
Contacts (slotted)	Beryllium copper, silver or nickel plated
Insulators	PTFE
Gaskets and Seals	Silicone rubber

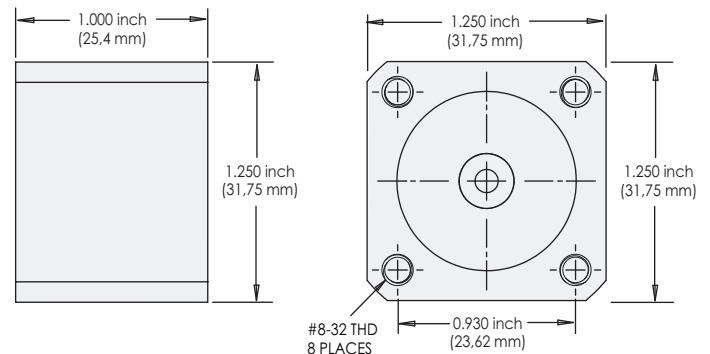
All specifications above apply to only the QC interface.

Configure your QC adapter

1. Select QC adapter A and B and mate each to the coupler block.
2. Mount each QC adapter to the coupler block using the screws provided.
3. Retrofit either of the adapters with alternate interfaces to reconfigure your QC adapter system.

Finished QC Adapter ▶

The individual adapters and coupler block shown assembled into a finished QC adapter



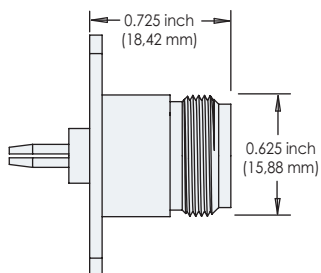
QC (f) to QC (f) Coupler Block
TRU-15021

Quick Change (QC) Adapter Series

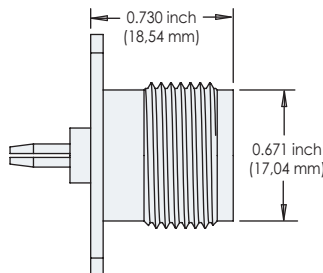


QC Adapters: Threaded Interfaces

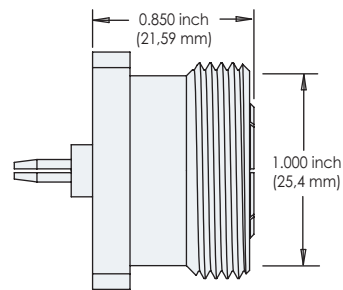
TRU Corporation offers a broad range of standard, threaded interface QC adapters that mate with common equipment interfaces found in mid to high power applications. These designs offer exceptional quality and reliability that will maintain the integrity of your measurement over multiple matings. Custom designs are available for your specific application upon request.



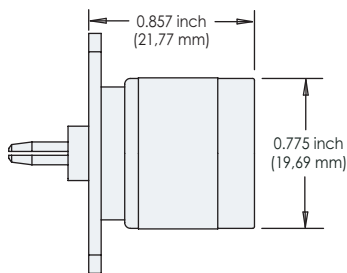
QC (m) to N (f)
TRU-15010



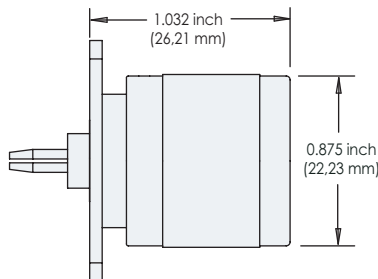
QC (m) to HN (f)
TRU-15022



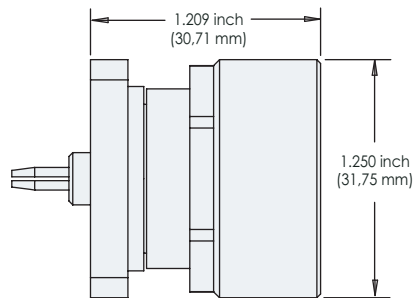
QC (m) to 7-16 (f)
TRU-15018



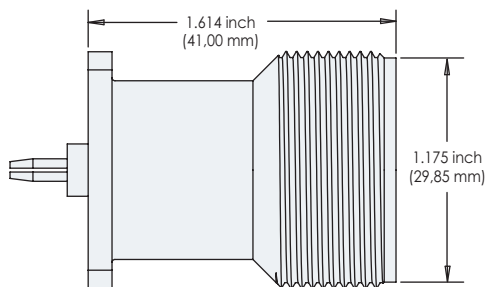
QC (m) to N (m)
TRU-15007



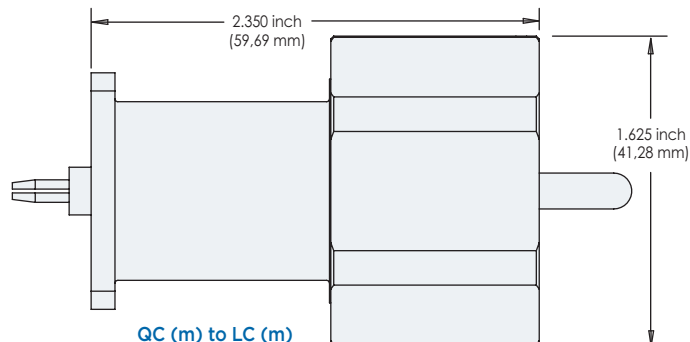
QC (m) to HN (m)
TRU-15013



QC (m) to 7-16 (m)
TRU-15016



QC (m) to LC (f)
TRU-15019



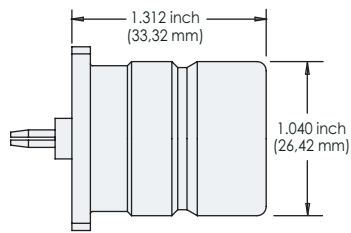
QC (m) to LC (m)
TRU-15008

Quick Change (QC) Adapter Series

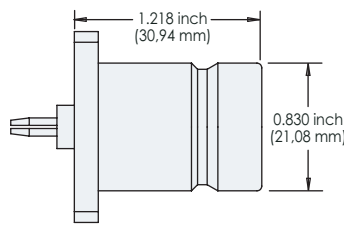


QC Adapters: Quick Connect/Disconnect Interfaces

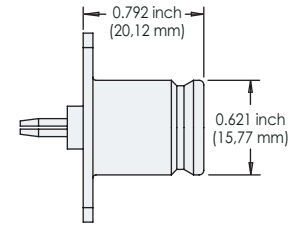
QC series adapters are also available with TRU Corporation's unique quick-disconnect RF interfaces that provide reliable mating with fast connect/disconnect capability. These interfaces feature a positive lock mechanism employing a spring-loaded sleeve on the male plug that is drawn back to let self-contained bearings "click" into grooves on the mating female receptacle and slide forward. A fully mated and safe condition is visually represented with full coverage of our TRU-Redline™ indicator. These designs provide exceptionally fast and reliable hand mating that will not vibrate loose.



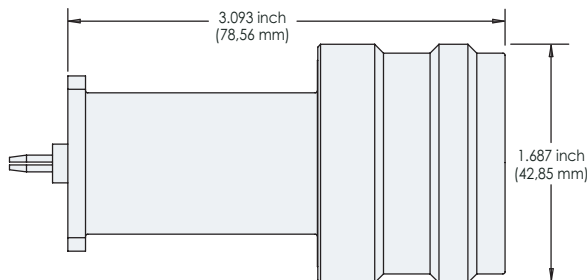
QC (m) to SQS® (f)
TRU-15020



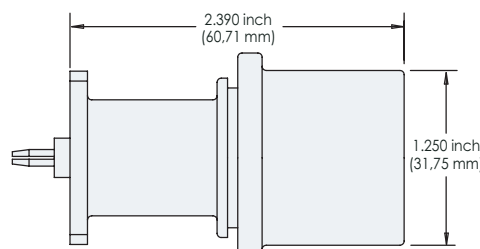
QC (m) to QRM™ (f)
TRU-15017



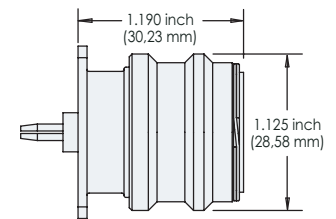
QC (m) to QDS® (f)
TRU-15009



QC (m) to SQS® (m)
TRU-15002



QC (m) to QRM™ (m)
TRU-15012



QC (m) to QDS® (m)
TRU-15001

Dimensions shown are reference only.

QC Adapter Specifications

The **Power Rating** of the QC adapter system is limited to the common QC mating interface. Below is the power rating curve of the QC interface up to 1,000 MHz (1 GHz).

