
Tektronix TCAL500 Performance Verification

For maintenance and performance verification of this TCAL500 unit:

1. Periodically, the connector interfaces of the TTR500 VNAs and TCAL500s should be tested for mechanical compliance. Industry standard connector compliance test tools are available from several suppliers worldwide to perform this verification.
2. Upon receipt of the TCAL500 unit, the customer should calibrate (full 2-port, full frequency range) a TTR500 VNA with a TTR500 calibration device. Then, make a reference measurement on a known DUT and store the full 2-port s-parameter results of the known DUT when the TCAL is used with a TTR500 product.

Periodically, the DUT should be retested. When DUT results appear similar, the TTR500 series can be considered passing. If the new DUT measurement results differ significantly from the original DUT results, the TCAL should be returned to Tektronix for service and recalibration. The end user can use the TTR500/TCAL500 specifications for guidance to create a basis for deciding when the TCAL500 is out of compliance.

When in doubt about an individual TCAL500's performance due to over-stress, electrical or mechanical, it is best to return the TCAL500 to Tektronix for recalibration and/or service. Tektronix uses specialized instrumentation and methods to provide VNA calibration for all specified TCAL500 parameters.

The recommended recalibration interval for the TCAL500 is 12 months.

Questions? Call 1-800-438-8165 (North America) or visit www.tek.com for online support.

