

# TEST PROCEDURES AND PROFILES

## TEST PROCEDURES AND PROFILES

This section provides detailed procedures and, where appropriate, test profiles for each of the qualification and acceptance tests referenced for space qualified isolators and circulators.

For more detailed information on each test procedure and profile please contact us at 559.255.7042 or email us at [sale@ditom.com](mailto:sale@ditom.com)

1. VNA Calibration Procedure
2. VNA Calibration Tolerances
3. Electrical Performance Measurement Procedure
4. RF Leakage Test Procedure
  - A. RF Leakage Form
5. RF Susceptibility Test Procedure (Simplified)
  - A. RF Susceptibility Form
6. Storage Temperature Cycling Procedure
  - A. Storage Temperature Cycling Profile
7. Thermal Shock Procedure
  - A. Reference MIL-STD-202G, Method 107
  - B. Thermal Shock Record of Test
8. Operational Temperature Cycling Procedure
9. Random and Sine Vibration Procedure
  - A. Random Vibration Qualification Profile
  - B. Random Vibration Acceptance Profile
  - C. Sine Vibration Profile
10. Mechanical Cube Mounting Procedure
11. Thermal Vacuum Survival and Operational Test Procedure
12. Thermal Vacuum Survival and Operational Test Profile
  - A. Thermal Vacuum Equipment Description



ENVIRONMENTAL TESTING LABORATORY (ON-SITE)

### Thermal Vacuum Chamber

Temperature: -50°C to +200°C  
Vacuum: <math>7 \times 10^{-6}</math> torr

### Tenney T5STR Environmental Chamber

Fully automated test profiles  
Altitude: Site level to 100kft.  
Temperature: -70°C to +177°C  
Humidity: 20% to > 95% RH

### Electrodynamic Shaker

Random, Sine, Shock capable  
2000 lbf Sine  
3900 lbf Shock/SRS  
Simultaneous 3-axis testing