

CTS-6025 CSAR Radio Test Set

Extensive Field Testing for Your Most Critical Radios



Powerful - 16+ instruments in one

Reliable - Fewer frustrating "no fault found" results

Flexible - Modular, customizable architecture makes it future-proof

Intuitive - Windows-based interface

Overview

Ensure mission readiness of your most critical radios with the CTS-6025 CSAR Radio Test Set from Astronics. Combining over 16 instruments into one, this portable, upgradeable tester offers fault detection and operational verification for both the General Dynamics Mission Systems HOOK2® and HOOK3® radios.

The CTS-6025 CSAR Radio Test Set is the most comprehensive communications tester for field testing, reducing testing time and cost, maintenance and calibration costs, lifecycle ownership costs, and the number of "no fault found" results.

With more than 20 years of radio test expertise, Astronics offers this customized solution exclusively with General Dynamics Mission Systems for the Hook Series CSAR Radios.

Built with synthetic, modular instrumentation, the CTS-6025 CSAR Radio Test Set always has access to the latest technology upgrade for future-proof field radio test.

The CTS-6025 CSAR Radio Test Set offers a synthetic instrument architecture to provide a migration path for easy customization, upgrades, and alignment with future radio communications technologies. Additionally, Astronics' long history of field support and obsolescence management ensure long term success and maximum utilization of your radio test set investment. Rely on Astronics' global team for installation, calibration, training, field support, and maintenance.

Built-in Military Optimizations.

- Guided, scripted testing for your Hook Series radios from General Dynamics Mission Systems that quickly provides consistent, cataloged test results
- Removable solid state hard drive protects mission critical data

Key Features

- RF signal generator, receiver, power meter
- RF analyzers – spectrum, VSWR, cable distance-to-fault
- AF signal generator
- Audio meters – SINAD/distortion, frequency, audio filters
- Oscilloscope, reference oscillator
- Digital interfaces
- Tracking generator
- Error vector magnitude (EVM)
- Wideband streaming TX and RX
- Real-time RF burst trigger
- Power analyzer
- NVM and data loader

CTS-6025 CSAR Radio Test Set

CTS-6025 CSAR Radio Test Set Key Specifications

RF Signal Generator

- **Frequency:**
 - Range: 1.0 MHz to 6.0 GHz
 - Resolution: 1 Hz
 - T/R output range: -120 dBm to -50 dBm
 - ANT output range: -90 dBm to -30 dBm

RF Receive Meters

- **Frequency:**
 - Range: 1.0 MHz to 6.0 GHz
 - Resolution: 1Hz
 - T/R input range: -50 dBm to +47 dBm (50 Ω)
 - ANT input range: -120 dBm to +20 dBm (50 Ω)
 - RSSI range: -100 dBm to +47 dBm

RF Power Meter

- **Frequency:**
 - Range: 1.0 MHz to 6.0 GHz
 - Accuracy: +/-1 dB

Audio Function Generator

- **Waveform:**
 - Sine, square, triangle, ramp up, ramp down, & DC
- **Frequency:**
 - Range: Sine: 0 Hz to 40 kHz
 - Resolution: 0.1 Hz
 - Accuracy: 100 ppm

Dimensions

- **Size:** 11.8" x 10" x 3.3" (300 mm x 255 mm x 85 mm)
- **Weight:** <10.6 lbs. (4.8 kg)

Accessories

- AC power cord, carry handle, operator's manual, 2 batteries

RF Spectrum Analyzer

- **Frequency:**
 - Range: 1.0 MHz to 6.0 GHz
 - Resolution: 1 Hz

Oscilloscope

- **Display:**
 - Channels: 2
 - Trace types: Live, captured
 - Measure: frequency, Vrms, Vmin, Vmax, Vpp, Vavg, pulse width (neg. & pos.)
 - Frequency range: DC to 25 MHz
 - Input range: +/-40 V

Reference Oscillator

- **Accuracy:** +/- 0.15 ppm

Audio Analyzer

- **Channels:**
 - 2 Channels
 - Demodulated RF
 - Audio signal is automatically detected and measured

Power Requirements

- **AC/DC**
 - AC voltage: 100 to 240 VAC, 50/60 Hz
 - DC voltage: using battery

Host System

- Rugged tablet running Windows 10
- Solid state drive with 128 GB



The CTS-6025 CSAR Radio Test Set is developed exclusively for use with Hook Series Radios from General Dynamics Mission Systems