

BTSDA-7

Analog and Digital QPSK Analyzer



The BTSDA-7 allows you to perform accurate alignment of satellite antennas using a single instrument. The BTSDA-7 measures signals in the 950-2250 MHz frequency range and will store up to 199 measurement configurations.

Network ID, orbital position and encryption system information can be viewed from DVB satellite providers delivering this information (not available on DSS).

○ Features & Benefits

- 950-2150 MHz Frequency Coverage
- Measures Both DVB and DSS Signals
- Audible Tone Feature Provides Hands Free to Peak Dish
- Includes Carrying Bag and Strap

○ Specifications

RF & Analog Measurements

Frequency Range: 950-2250 MHz
Frequency Resolution Steps: 1 MHz
Input Impedance: 75 Ohm
Voltage to Drive LNB at RF In:
OFF / +13 V / +18 V / 22 KHz
Average Power Measurement Range at RF Input:
28 to 120 dBμV
-80 to +12 dBm
-32 to +60 dBmV
Power Measurement Resolution: 0.5 dB
Power Measurement Accuracy at +20° C:
1.5 Typical 3 Max. dB
Power Measuring Stability (Temperature):
0.02 dB/°C from 0° to 60° dB
IF Bandwidth (@ -3dB): 53 MHz
QPSK DVB Demodulator:
MPEG2 Transport Stream
Symbol Rate: 2 to 45 MS/s
C/N Measurement from Digital Demodulation:
Up to >14 dB
Bit Error Ratio Measurement:
Up to >2 x 10⁻⁸ accuracy + 1
Quality Test
Fail: With aBER <2 x 10⁻⁴
Marginal: With aBER <2 x 10⁻⁴
and <2 x 10⁻⁶
Pass: With aBER <2 x 10⁻⁶
Reserve Noise Margin:
From -1.5 to +8, 0.5 Accuracy dB
Forward Error Correction:
1 / 2, 2 / 3, 3 / 4, 5 / 6, 4 / 5, 6 / 7, 7 / 8
Frequency Error Measurement (w/ 27.5 MS/s):
100 KHz to 3 MHz

Selectable LNB Oscillator Frequencies:
9.750, 10.000, 10.600, 10.750, 11.250,
11.300 MHz or 0 for 1st IF Reading (L Band)
Digital Standard Selection: DVB or DSS
Digital Multiplex Flatness: 0.5 Accuracy dB
LNB Gain Measurement (LNBg):
From 30 to 70, 3 Typical, 5 Max dB
Cross Polarization Measurement (cPOL):
2 Typical, 4 Max dB

Additional Measurements

Digital Standard Selection:
DVB or DSS (US Standard) Storable
Digital Multiplex Flatness:
0.5 to >6, 0.5 (Steps) dB
LNB Gain Measurement (LNBg):
From 30 to 70, 3 Typical, 5 Max dB
Cross Polarization Measurement (cPOL):
Up to 20 Based on Digital Demodulation)
2 Typical, 4 Max dB

General

Power Supply: Internal NI-CAD +12 V, 2A
External Voltage:
12.5 V to 20 V DC or AC (1A)
(17 VAC Min. to Charge)
(Ø 5.5 x 2.5 Connector on the Battery Pack)
or 230 VAC with AC / AC Adapter Supplied
Battery Capacity (c):
100 w/LNB > 140 w/o LNB Minutes
Battery Recharge Time: 10 hours

Mechanical

Material: Aluminum & Silicon Rubber
Dimensions (WxHxD):
4.73 x 2.36 x 9.26 in
120 x 60 x 235 mm
Weight Instrument & Battery: 2.86 lbs., 1.3 kg

○ Ordering Information

Model
BTSDA-7

Description
BTSDA-7 Digital QPSK and Analog Analyzer 950-2250 MHz, DVB QPSK Demodulator