

C & X-BAND MINITESTERS

6113C / 6127X



SUPPLYING HIGH PERFORMANCE, INNOVATIVE AND SOPHISTICATED RF, MICROWAVE, MILLIMETER WAVE COMPONENTS AND INTEGRATED ASSEMBLIES WORLDWIDE.

DESCRIPTION

The 6113C and 6127X Minitesters are used to test C-Band and X-Band transponders at a maximum distance of 350 feet. Fully tuneable from 5.4 to 5.9 GHz., and from 9.0 to 9.6 GHz respectively. They transmit two pulses coded with 3 to 12 microsecond spacing. Transmit-receive indicators are located externally, as is the pulse code adjustment.

Each minitester consists of an Interresponder, Model 511-3 rechargeable battery pack, and a Model 845CX omnidirection stub antenna. The battery pack will provide four hours of continuous operating life for the minitester before recharging is necessary.

The design of the 6113C and 6127X Minitesters utilize the latest in modern devices and circuitry and provide a reliable product with extremely long operating life.

FEATURES

- Minitesters are used to test C-Band and X-Band transponders at a maximum distance of 350 feet
- Fully tuneable from 5.4 to 5.9 GHz and from 9.0 to 9.6 GHz respectively
- Transmit receive indicators are located externally
- Extended code spacing option



ELECTRICAL

- Battery Power: Model 511-3 rechargeable nicad battery pack
- Operate Life: 5 hours at 27°C
- Antenna Type: Any suitable antenna with 50 ohms impedance with desired pattern coverage and polarization. Recommend Model 845CX omnidirectional with adapter

PHYSICAL

- Size: 8.25 x 2.25 x 1.25 inches (21 x 5.7 x 3.2 cms) excluding antenna
- Displacement Volume: 23 cubic inches (58.4 cubic cms)
- Weight: 25 ounces (709 gms)
- Connectors:
Antenna: SMA (3mm) female
Battery Power Type: Model 511-3 rechargeable nicad battery pack Rear panel, 3-pin Winchester SM3P, Pin A = +28 VDC, Pin B = +7VDC, Pin C = GND
Mating connector, battery pack - Winchester SM3SH

RECEIVER

- Type: Crystal video
- Frequency: C-Band, 5.4 to 5.9 GHz; X-Band, 9.0 to 9.6 GHz
- Sensitivity: C-Band, -35 dBm minimum; X-Band, -30 dBm minimum (with 2 microsecond or greater fixed delay in beacon under test and a minimum of 50 MHz separation between transmitter and receiver)
- Stability: ± 5 MHz
- Frequency Adjustment: 2-section preselector (accessible through front panel)
- Bandwidth (3 dB): C-Band, 15 ± 5 MHz; X-Band, 28 ± 6 MHz
- Pulse Code: Single-pulsed
- Duplexer: 4-port circulator with internal load
- Indicator: LED

TRANSMITTER

- Type: Solid-state (pulse diode)
- Frequency: C-Band, 5.4 to 5.9 GHz; X-Band, 9.0 to 9.6 GHz.
- Power: 5 Watt typical (3 Watt minimum)
- Frequency Adjustment: Single adjustment (accessible through rear panel)
- Pulse Width: 0.45 \pm 0.15 microseconds (internal adjustment)
- Repetition Rate: 500 ppps (1000 pps)
- Frequency Stability: ± 5 MHz at +25°C, ± 10 MHz from 0° to +50°C
- Two Pulse Code: 3 to 12 microseconds (external adjustment)
- Indicator: LED

ENVIRONMENTAL

- Temperature, External Ambient: 0°C to +50°C

OPTIONS

- Battery Charger: Model 518, P/N 404972-1

PRODUCT NUMBERS

- P/N 403751-1 - 6113C, C-Band Standard Unit
- P/N 403751-2 - 6113C, C-Band Extended Code Spacing (2-13 usec)
- P/N 404534-1 - 6127X, X-Band Standard Unit



making a difference

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