

ELT TESTER SPECIFICATIONS

BT100 series BT100AV Series

PARAMETER		BT100A	BT100S	BT100AV triple	BT100AVS	ACCURACY
406 MHz MEASUREMENTS						
Measure all Cospas-Sarsat Frequency Channels		•	•	•	•	
Decode all Cospas-Sarsat Protocols		•	•	•	•	
UIN & Full HEX		•	•	•	•	
Frequency (using INT REF) (resolution = 100 Hz)						
Leaving Factory		•	•	•	•	± 100 Hz
Long Term						± 0.4 ppm/year
Frequency (using EXT REF) (resolution = 1 Hz)		•	•	•	•	± 1 Hz
Frequency * Stability	Nominal Frequency		•		•	± 2.5 x 10 ⁻¹¹
	Short Term		•		•	
	Medium Term - Mean Slope		•		•	
	Medium Term - Residual		•		•	
Power		•	•	•	•	± 1 dB
Power Rise Time		•	•	•	•	± 0.5 ms
Phase Modulation		•	•	•	•	± 0.04 rad
Modulation Rise and Fall Times		•	•	•	•	± 10 µs
Modulation Symmetry		•	•	•	•	± 0.005
Modulation Bit Rate		•	•	•	•	± 0.2 bps
CW Preamble			•	•	•	± 0.8 ms

121.5 MHz/243 MHz MEASUREMENTS						
121.5 MHz Frequency (using INT REF) (resolution = 100 Hz)						
Leaving Factory		•	•	•	•	± 100 Hz
Long Term						± 0.4 ppm/year
243 MHz Frequency (using INT REF) (resolution = 100 Hz)						
Leaving Factory				•	•	± 100 Hz
Long Term						± 0.4 ppm/year
121.5 MHz Frequency (using EXT REF) (resolution = 1 Hz)		•	•	•	•	± 30 Hz
243 MHz Frequency (using EXT REF) (resolution = 1 Hz)				•	•	± 30 Hz
121.5 MHz Peak Power		•	•	•	•	± 1.5 dB
243 MHz Peak Power				•	•	± 1.5 dB
Sweep Direction		•	•	•	•	✓
Audio Frequency		•	•	•	•	± 30 Hz
Sweep Range		•	•	•	•	± 60 Hz
Duty Cycle		•	•	•	•	± 2%
Modulation Factor		•	•	•	•	± 5%
Sweep Repetition Rate		•	•	•	•	± 0.1 Hz
Listen to Real-Time 121.5 Audio				•	•	✓
Listen to Real-Time 243 Audio				•	•	✓
Decipher Morse Code				•	•	✓

MISCELLANEOUS						
Graphic 406 Power During Burst screen		•	•	•	•	
Graphic 406 Phase Modulation screen		•	•	•	•	
Graphic 406 In-Band Spectrum screen		•	•	•	•	
User-defined Cable Loss factors at each frequency		•	•	•	•	
RF Input Cable		•	•	•	•	
Reference Input Cable		•	•	•	•	
Zipper Pouch		•	•	•	•	
Operator's Manual		•	•	•	•	
Certificate of Calibration (with Calibration Data)		•	•	•	•	
Hard Case		•	•	•	•	
Personal Data Assistant (PDA)		•	•	•	•	
AC Adapter		•	•	•	•	
PC Interface Cable		•	•	•	•	
PDA CD		•	•	•	•	

RF Range (using Internal Antenna):	406 MHz	>15 m	
	121.5 MHz/243 MHz	>3 m	
RF Input VSWR		1.10:1	
RF Input Level:	406 MHz Burst	-13 dBm Min	+40 dBm Max
	121.5 MHz/243 MHz	-28 dBm Min	+30 dBm Max
10 MHz REF Input VSWR		1.15:1	
10 MHz REF Input Level		-10 dBm Min	+10 dBm Max
Operating Temperature Range		0°C to +50°C	
Storage Temperature Range		-20°C to +60°C	
Internal Temperature Sensor Accuracy		±0.5°C	
RF Input Cable Termination		BNC-female	
10 MHz REF Cable Termination		SMA-female	
Dimensions:	BT100 w x l x h mm (inches)	43.5 (1.71) x 58.5 (2.30) x 12.7 (0.50)	
	BT100 in PDA w x l x h mm (inches)	77.0 (3.03) x 140.0 (5.51) x 17.0 (0.67)	
	Hard Case w x l x h mm (inches)	324 (12.75) x 273 (10.75) x 114 (4.50)	
* User must supply a stable 10MHz Reference Signal		* Specifications subject to change without notice	