

ELT TESTER SPECIFICATIONS

PARAMETER	BT100 series		BT100AV Series		ACCURACY
	BT100A	BT100S	BT100AV triple	BT100AVS	
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		•	•	
	Short Term		•	•	
	Medium Term - Mean Slope		•	•	± 2.5 x 10 ⁻¹¹
	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)					
243 MHz Frequency (using EXT REF) (resolution = 1 Hz)					
121.5 MHz Peak Power					
243 MHz Peak Power					
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	