

BT200 Technical Specification

Revision 1.00

	BT200	add ELT	add AIS(Rx)	add AIS(Rx&Tx)	Uncertainty
406 MHz Measurements					
Measure all Cospas-Sarsat Frequency Channels	•				-
15 HEX ID	•				-
Full HEX	•				-
Decode Message – EPIRB & PLB	•				-
Decode Message – ELT		•			-
Frequency					± 100 Hz
Leaving factory					± 1.5 ppm/yr
Long Term	•				± 50 Hz
Leaving factory – High Stability					± 1.0 ppm/yr
Long Term – High Stability					
Power output	•				± 0.25 dB*
Power rise time	•				± 0.5 ms
Pre-burst level	•				± 1 dB
Pulse Repetition period	•				± 10 ms
Bit rate	•				± 0.1 bps
CW preamble time	•				± 0.8 ms
Total transmission time	•				± 0.8 ms
Rise time	•				± 10 µs
Fall time	•				± 10 µs
Phase deviation: positive	•				± 0.02 rad
Phase deviation: negative	•				± 0.02 rad
Modulation phase symmetry	•				± 0.005
121.5 MHz Measurements					
Frequency					± 100 Hz
Leaving factory					± 1.5 ppm/yr
Long Term	•				± 60 Hz
Leaving factory – High Stability					± 1.0 ppm/yr
Long Term – High Stability					
Peak Power	•				± 1.0 dB
Sweep Direction	•				-
Audio Frequency – upper and lower	•				± 30 Hz
Audio Sweep Range	•				± 60 Hz
Modulation Index	•				± 5%
Sweep Rep Rate	•				± 0.1 Hz
Duty Cycle	•				± 2%
243 MHz Measurements					
Frequency					± 100 Hz
Leaving factory					± 1.5 ppm/yr
Long Term	•				± 60 Hz
Leaving factory – High Stability					± 1.0 ppm/yr
Long Term – High Stability					
Peak Power		•			± 1.0 dB
Sweep Direction		•			-
Audio Frequency – upper and lower		•			± 30 Hz
Sweep Range		•			± 60 Hz
Modulation Index		•			± 5%
Sweep Rep Rate		•			± 0.1 Hz
Duty Cycle		•			± 2%
AIS Measurements					
Frequency (AIS1 & AIS2)					± 100 Hz
Leaving factory					± 1.5 ppm/yr
Long Term			•	•	± 60 Hz
Leaving factory – High Stability					± 1.0 ppm/yr
Long Term – High Stability					
Power			•	•	± 1.0 dB
AIS Messages Decode			•	•	-
Tx AIS Transceiver (Class A & B)				•	-
Graphic Measurements					
-406 spectrum mask graphics data	•				-
-406 output power during burst graphic data	•				-
-406 phase modulation graphics data	•				-

*between 35-39 dBm

Miscellaneous Parameters		
RF Range (Antenna mode)		
406 MHz		>5 m
121.5 MHz/243 MHz		>1 m
AIS		>5 m
RF Input VSWR		1.20:1
Dynamic Range		
Direct mode	121.5 MHz	-10 dBm to +36 dBm
	243 MHz	+5 dBm to +36 dBm
	406 MHz	+12 dBm to +43 dBm
	AIS	+10 dBm to +43 dBm
Screen Box mode	121.5 MHz	-16 dBm to +20 dBm
	243 MHz	-17 dBm to +24 dBm
	406 MHz	-4 dBm to +30 dBm
	AIS	+10 dBm to +30 dBm
Maximum Input Power (One burst/50 seconds)		+43 dBm
Maximum Input Power (Continuous RF)		+33 dBm
Operating Temperature Range		+5°C to +50°C
Storage Temperature Range		-20°C to +60°C
Ingress Rating		IP68
RF Input Cable Termination		BNC-female
Dimensions and Weight		
BT200: w x l x h mm (inches)		135 (5.31) x 70 (2.76) x 20.0 (0.79)
Weight		222 g (0.49 lbs)
Hard Case: w x l x h mm (inches)		363 (14.29) x 284 (11.18) x 124 (4.88)
Weight		1.90 kg (4.2 lbs)