

LIMIT TESTER

SPECIFICATIONS

PARAMETER	UNITS	LTS100	LTS200	C/S T.001 Limits	BT100 Uncert	DEFAULT LIMITS (including BT100 Uncert)		USER-DEFINED MAX INPUT RANGE (LTS200 only)	
406 MHz						Lower	Upper	Lower	Upper
406 Frequency (Int Ref)	Hz	•	•	±5000	±425	406019575	406081425	406.0 to 406.1 MHz	
406 Frequency (Ext Ref)	Hz	•	•	±5000	±1	406019999	406081001	406.0 to 406.1 MHz	
406 Power Level 5 WATT	dBm	•	•	35 to 39	±1	34	40	20 to 40 dBm	
INT ANT	%	•	•	-	-	5	105	0 to 150 %	
EXT COAX	%	•	•	-	-	5	105	0 to 150 %	
406 Power Rise Time	ms	•	•	<5	0.5	-	5.5	-	5.5
406 PM +ve Phase Deviation	rad	•	•	1.0 to 1.2	±0.04	0.96	1.24	0.2 to 3.0 rad	
406 PM -ve Phase Deviation	rad	•	•	-1.0 to -1.2	±0.04	-0.96	-1.24	-0.2 to -3.0 rad	
406 PM Rise Time	µs	•	•	50 to 250	±10	40	260	0 to 625 µs	
406 PM Fall Time	µs	•	•	50 to 250	±10	40	260	0 to 625 µs	
406 PM Symmetry	-	•	•	≤0.05	±0.005	-	0.055	0 to 0.5	
406 PM Bit Rate	Hz	•	•	396 to 404	±0.2	395.8	404.2	393 to 407 Hz	
406 CW Preamble	ms	•	•	158.4 to 161.6	±0.8	157.6	162.4	140 to 180 ms	
406 Spectral Mask		•	•	Corner 1	dBC ±kHz	-20	3	0 to -65 dB	0 to 5 kHz
		•	•	Corner 2	dBC ±kHz	-30	7	0 to -65 dB	5 to 9.5 kHz
		•	•	Corner 3	dBC ±kHz	-35	12	0 to -65 dB	9.5 to 18 kHz
		•	•	Corner 4	dBC ±kHz	-40	24	0 to -65 dB	18 to 25 kHz
121 &/or 243 MHz						Lower	Upper	Lower	Upper
121 Frequency (Int Ref)	Hz	•	•	±50 ppm	±150	121493825	121506175	121.49 to 121.51 MHz	
121 Frequency (Ext Ref)	Hz	•	•	±50 ppm	±30	121493895	121506105	121.49 to 121.51 MHz	
121 Power Level 5 WATT	dBm	•	•	14 to 27	±1.5	12.5	28.5	0 to 30 dBm	
INT ANT	%	•	•	-	-	5	105	0 to 110 %	
EXT COAX	%	•	•	-	-	5	105	0 to 110 %	
243 Frequency (Int Ref)	Hz	•	•	±50 ppm	±300	242987650	243012350	242.98 to 243.02 MHz	
243 Frequency (Ext Ref)	Hz	•	•	±50 ppm	±30	242987820	243012180	242.98 to 243.02 MHz	
243 Power Level 5 WATT	dBm	•	•	14 to 27	±1.5	12.5	28.5	0 to 30 dBm	
INT ANT	%	•	•	-	-	5	105	0 to 110 %	
EXT COAX	%	•	•	-	-	5	105	0 to 110 %	
Sweep Direction	-	•	•	UP, DOWN, DON'T CARE					
Audio Freq - lower	Hz	•	•	300	±30	270	-	30 to 900 Hz	-
Audio Freq - upper	Hz	•	•	1600	±30	-	1630	-	900 to 1630 Hz
Audio Sweep Range	Hz	•	•	≥700	±60	640	1360	0 to 1600 Hz	
AM Sweep Rep Rate	Hz	•	•	2 to 4	±0.1	1.9	4.1	1 to 5 Hz	
AM Mod'n Factor	%	•	•	85 to 100	±5	84.5	100	5 to 100 %	
AM Duty Cycle	%	•	•	33 to 55	±2	31	57	10 to 80 %	
406 Digital Message									
15 Hex ID		•	•	-		no verific'n of 15 Hex ID		15 Characters	
BCH error correcting field		•	•	-		verific'n of BCH1&BCH 2		verific'n of BCH1&BCH2	
406 Location									
Latitude	deg		•	-		C/S Default Value		-90 to +90 degrees	
Longitude	deg		•	-		C/S Default Value		-180 to +180 degrees	
Adistance	m		•	-		0		100 km	