

ATLANTIC

PRODUCTION SPECIFICATION

REV. X1

TRANSMITTER

	<u>UNIT</u>	<u>NORMAL</u>	<u>Limit</u>	<u>#1</u>	<u>#2</u>	<u>#3</u>	
Carrier Frequency Tolerance	Hz	+/- 200	+/-800	15	10	50	
Directed Carrier Power Output (@At 6.0 V DC input)							
HI	W	5.0	> 4.5	5.12	5.15	4.92	
LOW	W	1.0	0.5 – 1.5	0.65	0.55	0.73	
Maximum current @ 6.0V DC	mA	1800	>2000	1820	1840	1790	
Conducted Spurious Emission	dBc	60	55	59	62	61	
Radiated Spurious Emissions	dBc	60	55				
Audio Frequency Response							
300 Hz	dB	-25	-20 to -30	-26.2	-26.1	-28.3	
(AF = 2.4 KHz Dev @) style="text-align: right;">500Hz	dB	-6	-5 to -8	-7.2	-6.9	-7.5	
1 KHz	dB	0	0	0	0	0	
(AF = 1.2KHz Dev @) style="text-align: right;">2.0KHz	dB	+6	+5 to +8	6.8	6.1	6.5	
3.0KHz	dB	+6	+5 to +8	6.2	5.5	5.6	
Peak Frequency Deviation (AF input = 200 mV at Mic input @ 1 KHz audio rate)	KHz	4.1	3.7 – 4.6	4.1	4.1	4.1	
Tx Hum & Noise (AF 1 KHz at 2.4 KHz Dev.)	dB	40	>35	39	41	40	
TX Distortion % (AF 1 KHz at 2.4 KHz Dev.)	%	3	<5	1.5	2.3	1.7	
Mic Sensivity (AF 1 KHz at 2.4 KHz Dev.)	mV	7	3 – 10	8	7.3	7.7	
VCO reference voltage (USA Mode)							
CH 1A	Vdc	1.4	+/-0.6	1.1	1.2	1.1	
CH 88A	Vdc	2.2	+/-0.6	2.1	2.0	1.8	
VOX Sensivity style="text-align: right;"> Level 1	mV	4.0	+/-1.0	5.9	5.5	5.8	
Level 2	mV	1.5	+/-0.5	2.3	2.2	2.3	
Call Deviation	KHz	2.5	+/-0.5	2.2	2.1	2.3	
Battery indicator	Vdc	4.25V	+/-0.1	4.26	4.21	4.27	

RECEIVER

	<u>UNIT</u>	<u>Normal</u>	<u>Limit</u>	<u>#1</u>	<u>#2</u>	<u>#3</u>	
GMRS sensitivity @12 dB Sinad	-dBm	124	<120	-125	-125	-125	
GMRS 20 dB Quieting sensitivity	-dBm	120	<117	-121	-121	-120	
GMRS Squelch sensitivity @ 12 dB SINAD	dB	12	+/-6	12	10	10	
Audio Output @max. volume, NO load @ 6V DC	V	1.9	>1.8	1.99	1.96	1.98	
Hum & Noise ratio	dB	43	>40	43	43	41	
RX Current @Volume Max. @ 8 ohm speaker, Un-squelched @Back-lit LED should be Off.	mA	115	<130	112	112	116	
Audio Frequency Response							
(AF = +/- 3 kHz dev @) 500 Hz	dB	3	+/-3	4.90	4.95	4.80	
3 KHz	dB	-12	+/-4	-10.2	-10.4	-9.9	
Audio Distortion @ 50 mW	%	3	< 5	3.5	4.1	3.7	
In Band Conducted RX spurious	dBm	-60	-53	-97	-93	-95	
Spurious Rejection ratio RX Spurious	dB	60	50				
Adjacent Channel Rejection							
+/- 25 KHz	dB	60	50				
Inter Modulation Distortion (+/- 2, 4 CH)	dB	60	50				
VCO Reference Voltage (USA Mode)							
CH 1A	Vdc	1.0	+/-0.3	1.2	1.3	1.2	
CH 88A	Vdc	2.0	+/-0.5	1.8	1.7	1.6	
WX Sensitivity @ 12 dB Sinad	-dBm	124	<120	-124	-124	-123	
WX Reference Voltage CH 10	Vdc	2.7	+/-0.6	3.2	3.0	3.2	
Power Off Current	uA	25	<100uA	14.5	15.4	16.2	

Note : 1KHz audio +/-3.0KHz Modulation