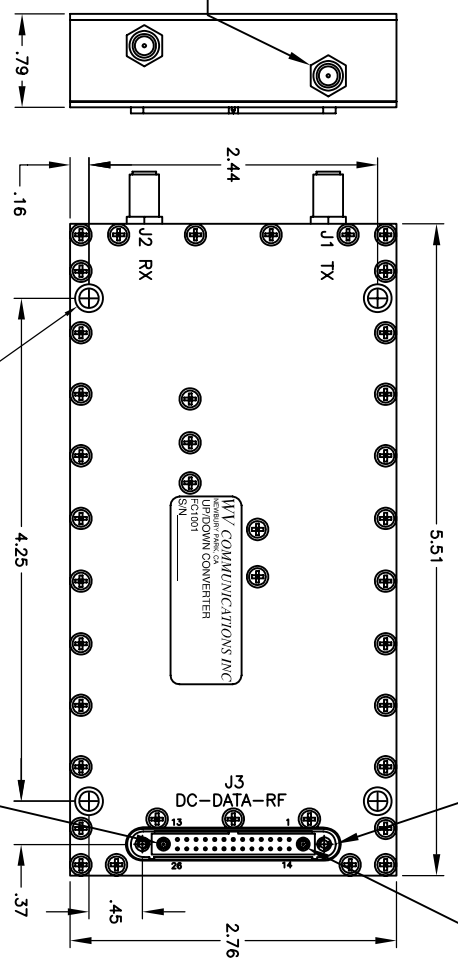


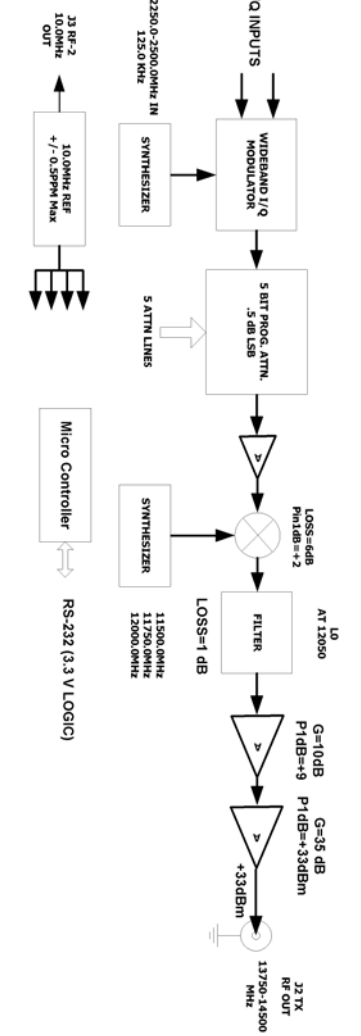
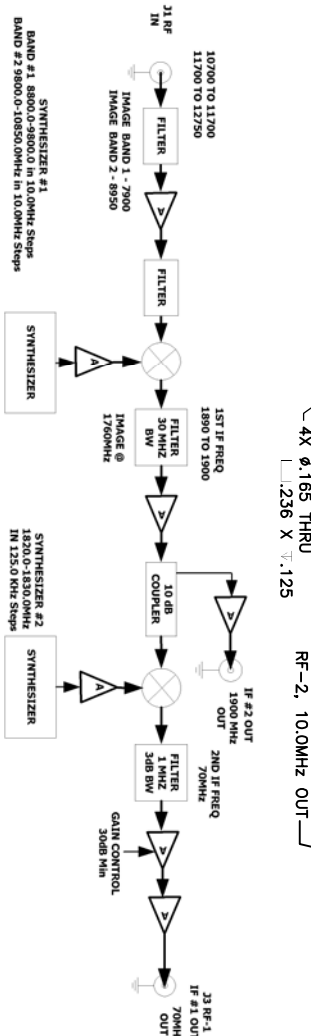
**\*\* PROPRIETARY DATA \*\***  
 THIS DOCUMENT CONTAINS DATA WHICH IS PROPRIETARY TO WY COMMUNICATIONS, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. THE DATA CONTAINED HEREIN SHALL NOT BE USED, REPRODUCED, OR ALTERED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF WY COMM. ALL RIGHTS ARE RESERVED.



26 POS. MICRO-CONN. P/N 221Y126F24-11-1300-45  
 RF-1, 70MHz RX-IF OUT  
 RF-2, 10.0MHz OUT

J3 - DC-DATA-RF	TX Specifications
1 V-BAT-P	FREQUENCY BAND: 13.75-14.5GHz
2 V-BAT-N	FREQUENCY STEP: 125.0kHz Nominal
3 V-BAT-P	RF POWER OUTPUT: +33dBm Minimum (2W)
4 GND	RF POWER OUTPUT: 10.00MHz ±0.5ppm Maximum
5 TX-ON-OFF	FREQUENCY STABILITY: Over Temperature
6 RS-232-TX	FREQUENCY SWITCHING TIME: 0.5mSec Maximum
7 RS-232-RX	MODULATION: 0.5 - 0.8 Voh RMS
8 RS-232-GK	I/Q DATA INPUT LEVEL: 1mVrms
9 TX-ON-OFF	UN-CODED DATA RATE: 15.5dB in 0.5dB steps Nominal
10 TX-ON-OFF	POWER CONTROL RANGE: 0.6 dB p-p Maximum
11 SPK4	POWER GAIN VARIATION: -50dBm Maximum
12 AGC-CONT-IN	HARMONICS: 50 Ohm Maximum
13 SPK6	SPIRITOUS LEVEL: 2:1 Maximum (Ref 50 Ohm)
14 V-BAT-N	OUTPUT IMPEDANCE: -75dBc Maximum @ 10KHz Offset
15 V-BAT-N	OUTPUT VSWR: -85dBc Maximum @ 100KHz Offset
16 V-BAT-N	OUTPUT SSB NOISE: -115dBc Maximum @ 1MHz Offset
17 GND	OUTPUT SSB NOISE: -140 dBm/Hz Maximum
18 RX-ON-OFF	OUTPUT NOISE LEVEL: 25%
19 SPK1	DUTY CYCLE: 50%
20 SPK2	LO LEAKAGE: -30dBc Maximum
21 TX-ON-OFF	TCXO VOLTAGE: 3.3±0.1 Volt at 3.0mA Maximum
22 TX-ON-OFF	DC VOLTAGE & CURRENT: TTL "0" = On TTL "1" = Off
23 TX-ON-OFF	DC VOLTAGE & CURRENT: 5.6Vdc to 7.6Vdc at 1.4A
24 TCXO-V-IN	
25 Option-TCXO-ADJ	
26 UDC Reset	
RF-1	RX-IF-OUT
RF-2	TCXO-OUT

CONNECTOR TABLE	FUNCTION
J1	RF IN/UT
J2	RF OUTPUT
J3	DC-DATA-RF



REF	DESIG.	FUNCTION	TX Specifications
1	J1	RF IN/UT	FREQUENCY BAND: 13.75-14.5GHz
2	J2	RF OUTPUT	FREQUENCY STEP: 125.0kHz Nominal
3	J3	DC-DATA-RF	RF POWER OUTPUT: +33dBm Minimum (2W)
4	J3	DC-DATA-RF	RF POWER OUTPUT: 10.00MHz ±0.5ppm Maximum
5	J3	DC-DATA-RF	FREQUENCY STABILITY: Over Temperature
6	J3	DC-DATA-RF	FREQUENCY SWITCHING TIME: 0.5mSec Maximum
7	J3	DC-DATA-RF	MODULATION: 0.5 - 0.8 Voh RMS
8	J3	DC-DATA-RF	I/Q DATA INPUT LEVEL: 1mVrms
9	J3	DC-DATA-RF	UN-CODED DATA RATE: 15.5dB in 0.5dB steps Nominal
10	J3	DC-DATA-RF	POWER CONTROL RANGE: 0.6 dB p-p Maximum
11	J3	DC-DATA-RF	POWER GAIN VARIATION: -50dBm Maximum
12	J3	DC-DATA-RF	HARMONICS: 50 Ohm Maximum
13	J3	DC-DATA-RF	SPIRITOUS LEVEL: 2:1 Maximum (Ref 50 Ohm)
14	J3	DC-DATA-RF	OUTPUT IMPEDANCE: -75dBc Maximum @ 10KHz Offset
15	J3	DC-DATA-RF	OUTPUT VSWR: -85dBc Maximum @ 100KHz Offset
16	J3	DC-DATA-RF	OUTPUT SSB NOISE: -115dBc Maximum @ 1MHz Offset
17	J3	DC-DATA-RF	OUTPUT SSB NOISE: -140 dBm/Hz Maximum
18	J3	DC-DATA-RF	OUTPUT NOISE LEVEL: 25%
19	J3	DC-DATA-RF	DUTY CYCLE: 50%
20	J3	DC-DATA-RF	LO LEAKAGE: -30dBc Maximum
21	J3	DC-DATA-RF	TCXO VOLTAGE: 3.3±0.1 Volt at 3.0mA Maximum
22	J3	DC-DATA-RF	DC VOLTAGE & CURRENT: TTL "0" = On TTL "1" = Off
23	J3	DC-DATA-RF	DC VOLTAGE & CURRENT: 5.6Vdc to 7.6Vdc at 1.4A
24	J3	DC-DATA-RF	
25	J3	DC-DATA-RF	
26	J3	DC-DATA-RF	
RF-1	RF-1	RX-IF-OUT	RX Specifications
RF-2	RF-2	TCXO-OUT	FREQUENCY BAND: 10.7 to 11.7GHz & 11.7-12.75GHz
			FREQUENCY STEP: 125.0kHz Nominal
			FREQUENCY SWITCHING TIME: 0.5 mSec Maximum
			LO 1 FREQUENCY: 8.8 to 10.8 GHz in 10.0MHz Steps
			LO 2 FREQUENCY: 1820.0 to 1830.0 MHz in 125.0KHz Steps
			MODULATION: QPSK
			30dB Minimum
			50 to 80 dB Nominal User Controlled
			3dB BW 0.5MHz Nominal
			35dB BW 1.28MHz
			30dB Min
			0 - 3V/1mA Maximum
			2dB Maximum at +25C
			-75dBc Maximum @ 1KHz Offset
			-85dBc Maximum @ 10KHz Offset
			-95dBc Maximum @ 100KHz Offset
			-115 @ Maximum 1MHz Offset
			+10dBm at the 70MHz IF output Port
			±5dB Maximum
			±60dB Minimum
			±60dB Minimum
			±60dB Minimum
			±60dB Minimum
			50 Ohm Nominal
			2:1 Maximum (Ref 50 Ohm)
			50dB Minimum
			1dB Maximum with 20dB KU Output / Input Isolation
			TTL "0" = On TTL "1" = Off
			5.6V at 100mA Maximum
			7.6V at 150mA Maximum
			0.5mA Maximum
			Va RS-232 3.3V 9600N81
			Operating -10 to +70 Deg C
			Storage: -40 to +85 Deg C

DATE	APPROVALS	REVISIONS	DATE	APP'D
07/27/04	TOW T	1	2-01-05	A
2-01-05	J. MEDMA	2	2-01-05	A
2-01-05	OC	3	2-01-05	A
2-01-05	IT	4	2-01-05	A
2-01-05	AM	5	2-01-05	A

WY Communications  
 1176 Townline Dr.  
 Newark Park, Ga.  
 Mini KU Up/Down Converter,  
 2 Watt  
 Model: P1001  
 050-50455

REV	DATE	DESCRIPTION
1	07/27/04	Initial Release
2	2-01-05	OC
3	2-01-05	IT
4	2-01-05	AM
5	2-01-05	AM

050-50455