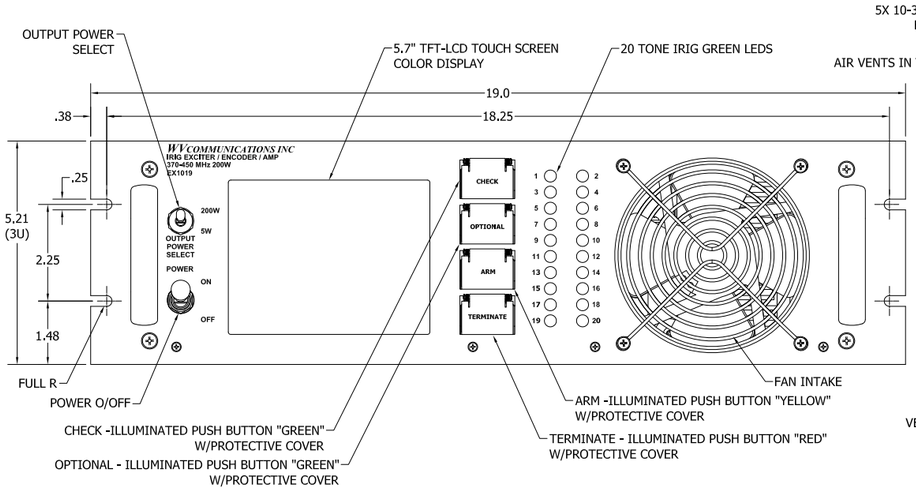
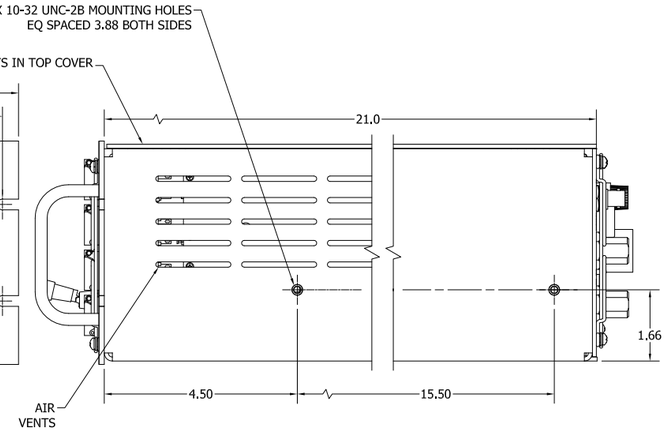
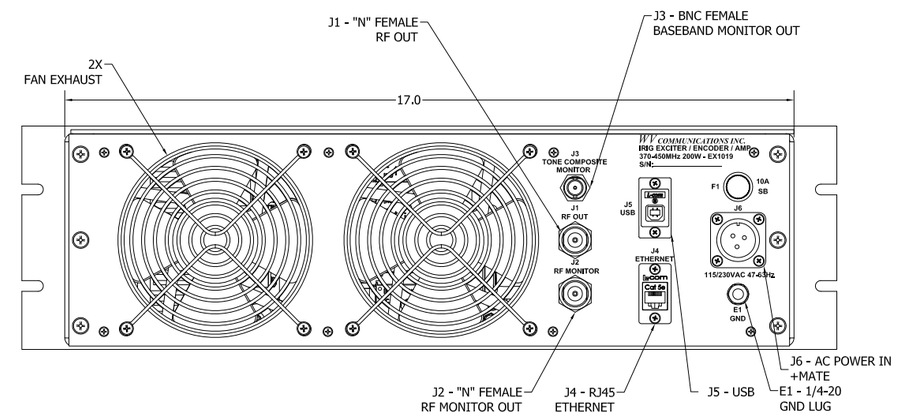
** PROPRIETARY DATA **
THIS DOCUMENT CONTAINS DATA WHICH IS PROPRIETARY OR CONFIDENTIAL TO WV COMM (WV COMMUNICATIONS INCORPORATED). THIS DOCUMENT AND THE DATA CONTAINED HEREIN SHALL NOT BE USED, DUPLICATED, OR ALTERED WITHOUT THE EXPRESSED WRITTEN CONSENT OF WV COMM. ALL RIGHTS ARE RESERVED.

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	6/21/2013	T.T
	B	ADDED NEW LCD, CHG REAR PNL	2/11/19	TT/UY







EXCITER

CARRIER FREQUENCY:	370.0 to 450.0MHz
CARRIER FREQUENCY STEPS:	1.0 kHz Steps
FREQUENCY SELECTION:	Via Front Panel / Remote
CARRIER STABILITY:	±0.0005% (±5PPM) Maximum
OUTPUT POWER LEVELS:	Low - 5W, High – 175W Minimum (200W Typical)
POWER SELECTION:	Via Front Panel / Remote
OUTPUT HARMONICS:	-60dBc Minimum
SPURIOUS IN BAND:	-60dBc Minimum
FM MODULATION RESPONSE:	±0.5dB Maximum over 5-75kHz
PEAK DEVIATION ADJUST:	Set for Deviation of 30 kHz / Tone Nominal User Settable continuously 8-35kHz via Front Panel or Remote

IRIG ENCODER

NUMBER OF TONES:	20 Tones
MAXIMUM IRIG TONES:	Any 6 of 20 tones simultaneously
NUMBER OF IRIG COMMANDS:	4ea User Programmable
TONE FREQUENCY STABILITY:	0.001% Maximum
LOCAL TONE ACTIVATION:	Via Color LCD Touchscreen
REMOTE TONE ACTIVATION:	Via Remote Ethernet Interface
OUTPUT AMPLITUDE VARIATION:	5% Maximum
TONE OUTPUT DISTORTION:	1% Maximum
TONE MONITOR OUTPUT LEVEL:	1V Pk-Pk for ±30kHz Deviation
TONE OUTPUT SIGNAL DELAY:	5mSec Maximum from Application of Tone Command to Stable Output within 0.01%
TURN ON STABILITY:	Frequency Stable within 0.1% after 10mSec
TONE FREQUENCIES:	Standard IRIG Tones See Table
LED TONE MONITOR:	Front Panel LEDs indicate active Tone
REMOTE STATUS & CONTROL:	Ethernet UDP/IP Protocol
OPERATING TEMPERATURE:	0 to +50°C
MTBF:	25,000 Hours Minimum
MTTR:	0.50 Hour Maximum
INPUT POWER:	115/230VAC Auto Switch at 5A/3A Maximum Single Phase 47-400Hz
FRONT PANEL COLOR:	Gray, per FED-STD-595 – 26307

J4 - ETHERNET

PIN NO.	PIN NAME
1	TX+
2	TX–
3	RX+
4	N/C
5	N/C
6	RX–
7	N/C
8	N/C

J6 - AC POWER CONNECTOR

CONN	DESCRIPTION
J6–A	AC LINE
J6–B	AC NEUTRAL
J6–C	SAFETY GROUND

TONE/FREQUENCY TABLE

TONE	IRIG FREQUENCY (KHz)	TONE	IRIG FREQUENCY (KHz)
1	7.50	11	25.01
2	8.46	12	28.21
3	9.54	13	31.83
4	10.76	14	35.90
5	12.14	15	40.49
6	13.70	16	45.68
7	15.45	17	51.52
8	17.43	18	58.12
9	19.66	19	65.56
10	22.17	20	73.95

EXTERNAL INTERFACE CONNECTORS

REF DES	DESCRIPTION	CONNECTOR TYPE	CONNECTOR MATE
J1	RF OUTPUT	N–F	N–M
J2	RF OUTPUT MONITOR	N–F	N–M
J3	BASEBAND MONITOR OUT	BNC–F	BNC–M
J4	ETHERNET	RJ45–M	RJ45–F
J5	USB	USB "B"–M	USB "B"–F
J6	AC POWER INPUT	MS3102E16–10P	MS3106F16–10S

900-50380	EX1019
NEXT ASSEMBLY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
FRACTIONS ± 1/64 DECIMALS .X± .1 .XX± .01 .XXX± .005 ANGLES ± 0°30' HOLES .XX± .005 .XXX +.003 -.001
MACHINED FINISH: 32 RMS
REMOVE BURRS .005 MAX
MATERIAL
FINISH
DO NOT SCALE DRAWING

APPROVALS		DATE
DRAWN	TONYT	6/19/2013
CHECKED	T.T	6/21/2013
MECH ENGR	T.T	6/21/2013
ELEC ENGR	TT	6/21/2013
PRODUCTION	A.M.	6/21/2013
Q.A.	W.O.	6/21/2013

WV Communications
1125 A Business Center Circle
Newbury Park, CA

IRIG EXCITER / ENCODER /AMP
370-450MHz 5W/200W
MODEL: EX1019

SIZE	CAGE CODE	DWG. NO.	REV
D	1GFQ7	050-50924	B

SCALE NONE SHEET 1 OF 1

REV B
DWG NO. 050-50924