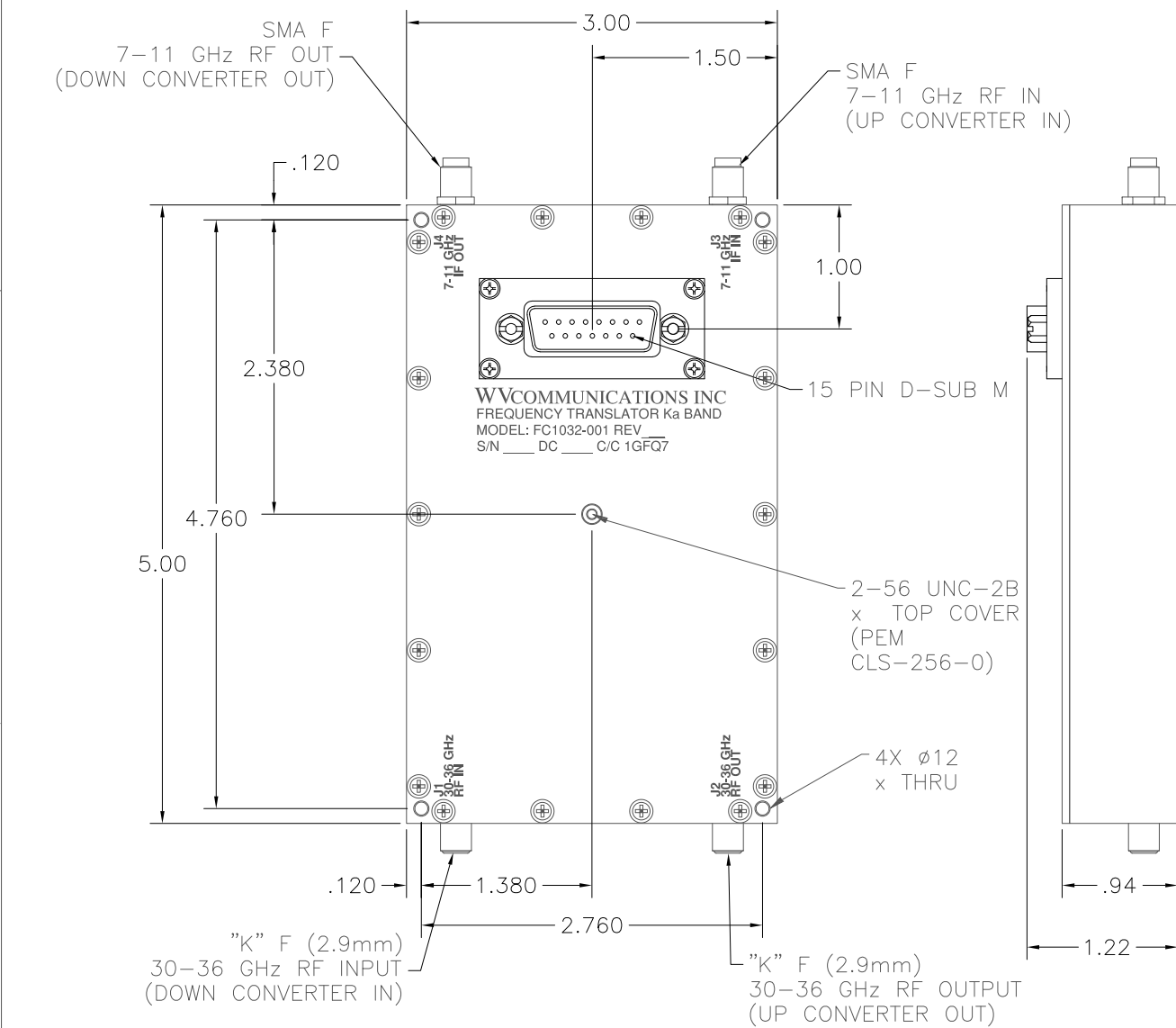


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REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASED	05/30/18	TT
	B	1.22 TALL WAS 1.14	7/24/19	TT



UP Converter Specifications

UP RF FREQUENCY BAND: 30-36GHz
FREQUENCY STEP: 5MHz
RF OUTPUT POWER RANGE: -60 to -10dBm ±2dB Maximum
SPURIOUS LEVEL: -60dBc Maximum
HARMONIC LEVEL: -50dBc in band / -60dBc out of band Maximum
OUTPUT VSWR: 2:1 Maximum (Ref 50Ω)
ISOLATION: -70dBc (IF input to IF output)

Down Converter Specifications

DOWN FREQUENCY BAND: 7-11GHz
FREQUENCY STEP: 5MHz
IF POWER OUTPUT RANGE: -60 to -10dBm ±2dB
SPURIOUS LEVEL: -60dBc Maximum
HARMONIC LEVEL: -50dBc in band / -60dBc out of band Maximum
NOISE FIGURE: 5dB Maximum at +25°C
P1dB COMPRESSION PT: -9dBm Minimum at the IF output port
INPUT VSWR: 2:1 Maximum (Ref 50Ω)
ISOLATION: -70dBc Minimum (RF input to RF output)

Unit Specifications

LO FREQUENCY RANGE: 23-25GHz
LO PHASE NOISE: -70dBc/Hz Maximum @ 100Hz Offset
 -80dBc Maximum @ 1kHz Offset
 -85dBc Maximum @ 10kHz Offset
 -90dBc Maximum @ 100kHz Offset
 -110dBc Maximum @ 1MHz Offset

FREQUENCY STABILITY: Stable within 3 minutes after applying power and to within ±100kHz of the input frequency within ±100kHz in 100uSec Maximum

FREQUENCY SWITCHING TIME
LO LEAKAGE -40dBm Maximum
GAIN VARIATION ±2dB Maximum
SPURIOUS -60dBc Maximum

INPUT/OUTPUT IMPEDANCE 50Ω Nominal
CONTROL: Via Clock/Date/Enable

DC VOLTAGE & CURRENT: 28±3Vdc at 2A Maximum
TEMPERATURE RANGES: Operating -40 to +71°C

PIN ASSIGNMENTS	
PIN #	FUNCTION
1	+28V IN
2	+28V IN
3	GND (CHASSIS & 28V RETURN)
4	GND (CHASSIS & 28V RETURN)
5	GND
6	GND
7	NC
8	NC
9	GND
10	NC
11	NC
12	CLOCK IN
13	DATA IN
14	LATCH ENGAGE IN
15	LOCK DETECT OUT

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES HOLES
 ± 1/64 .XX±.01 ± 0°30' .XX±.005
 .XXX±.005 .XXX±.003 .XXX-.001
 MACHINED FINISH: 32 RMS REMOVE BURRS .005 MAX

900-50425-001	FC1032-001	FINISH
NEXT ASSEMBLY	USED ON	
APPLICATION	DO NOT SCALE DRAWING	

APPROVALS		DATE
DRAWN	SERGIO V.	05/30/18
CHECKED	TT	05/30/18
MECH ENGR	SV	05/30/18
ELEC ENGR	JT	05/30/18
PRODUCTION	AM	05/30/18
Q.A.	SG	05/30/18

WV Communications 1125-A Business Center Circle
 Newbury Park, CA

OUTLINE DRAWING
FREQUENCY TRANSLATOR
Ka BAND FC1032-001

SIZE	CAGE CODE	DWG. NO.	REV
C	1GFQ7	050-50990-001	B
SCALE	MODEL: FC1032-001	SHEET	1 OF 1

DWG. NO. 050-50990-001 REV. B

DC-FORM-0015-3, REV. C, 06/08