

C + A

Ku-Band 2 Watt Block Upconverter (B.U.C)

(External 10 MHz Reference)

PRELIMINARY SPECIFICATION

Part Number *Tx/BUC-CAL2*

Input Frequency.....	950 to 1450 MHz
Output Frequency.....	14.0 to 14.5 GHz
Conversion Type.....	Single Fixed L.O. (phase locked to external 10 MHz)
Local Oscillator.....	13.05 GHz
Requirement for External Reference:	
Frequency.....	10 MHz (Sine-wave)
Input Power.....	-5 to +5dBm @input port
Phase Noise.....	-135 dBc/Hz @ 100 Hz
.....	-140 dBc/Hz @ 1 KHz
.....	-143 dBc/Hz @ 10 KHz
.....	-143 dBc/Hz @ 100 KHz
Gain.....	48 dB nominal
Gain Variation over frequency	
@ fixed temperature.....	5 dBp-p Max. over 500 MHz;
.....	2 dBp-p max. over 36 MHz
Gain Stability over temperature	
@ fixed frequency.....	2 dBp-p typ., 5 dBp-p max.
Output Power @1-dB G.C.P.....	+33 dBm Min.
Output spurious:	
(in-band).....	-50 dBc max. @ 14.0 to 14.5 GHz
(in receive band).....	-70 dBc max. @ 10.95 to 12.75 GHz
Receive Band Noise Power.....	-110 dBm/50KHz max. @10.95 to12.75 GHz
L.O. Phase Noise.....	-60 dBc/Hz @ 100 Hz
.....	-70 dBc/Hz @ 1 KHz
.....	-80 dBc/Hz @ 10 KHz
.....	-90 dBc/Hz @ 100 KHz
Input VSWR.....	2:1 max
Output VSWR.....	2:1 max
DC Input Voltage.....	+15 to 24 VDC
Current.....	2.5A Max.
Fault sensor.....	If PLL loses lock, SSPA is shut off and current limited to 0.5A Max.

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Part Number TXB2C-CA2A

DC InputThrough Input connector

Temperature Limits:

Operating.....-40°C to +60°C (-40°F to +140°F)

Storage.....-54°C to +85°C

Interface:

Input.....75 ohm, type "F" female

Output.....Flange, WR 75

Weatherproof Housing100% leak test per CAI TP-00003

Finish.....Polyurethane Powder Coat Paint

Physical Dimensions:

Size.....3.0" x 8.0" x 1.5" Max.

Weight.....2.1 lbs