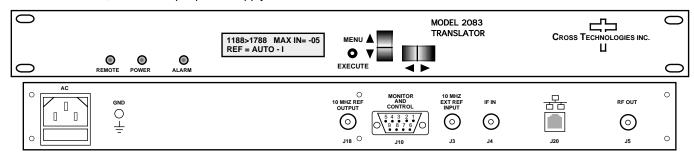


DATA SHEET

5/17/18 REV. B

2083-0915 Block Translator, 900-1475 to 1500-2075 MHz



2083-0915 Front and Rear Panels (Shown with optional Ethernet and option E)

EQUIPMENT SPECIFICATIONS*

Input Characteristics

Input Impedance/RL 50Ω /12 dB Frequency 900 - 1475 MHz

Max Input Level setting
Input Level Range
Noise Figure, max.
Output Characteristics

-5 to -25 dBm, in 1±1dB steps
0 to -20 dB below MAX IN setting
15 dB at -5 dBm MAX IN setting

Impedance/RL **50**Ω/12 dB Frequency 1500 - 2075 MHz

Output Composite Level -5 to -45 dBm (MAX IN -5 to -25)

Output 1 dB compression +5 dBm, at max gain

Channel Characteristics

Gain, fixed 0 ± 1 dB at Fc and MAX IN set to -5 dBm

Frequency Response ± 1.5 dB, 575 MHz bandwidth; ± 0.5 dB, any 40 MHz increment

Spurs-Inband (NOTE 2) < -50 dBC in band, signal dependent and signal independent; -5 dBm out; See NOTE 1

Spurs-out of band(NOTE 2)< -30 dBC, 0.5- 1.49 GHz and 2.1-2.6 GHz and 0.90-1.475 GHz feed through; -5 dBm out; See NOTE 1

Frequency Sense Non-inverting

Group Delay < 2ns, band; < 1ns, any 65MHz

Synthesizer Characteristics

Translation; Accuracy 1ppm; Option -H, ±0.01 ppm

Reference 10 MHz Internal; Option -E, Internal/ External selection; external level 3±3 dBm

Frequency Step None, fixed frequency

- 171	,				
Phase Noise @ F (Hz) >	100	1K	10K	100K	1M
dBC/Hz	-70	-70	-80	-90	-100

Controls, Indicators

Fc Translation

MAX IN level

Ext. ref. (Option -E)

Direct readout LCD; manual or remote selection

Power; Alarm; Remote Green LED; Red LED; Yellow LED RS232C, 9600 baud ; **RS485**, **Ethernet Options**

Other

RF In/RF Out Connector 10 MHz Connector BNC (female) BNC (female), 75Ω , works with 50 or 75 ohms

Alarm/Remote Connector
Size

DB9 (female) - NO or NC contact closure on Alarm
19 inch standard chassis 1.75" High X 16.0" Deep
Power

100-240 (±10%) VAC, 47-63 Hz, 30 watts max.

*+10 to +40 degrees C; Specifications subject to change without notice

2200 MHz 3500-4100 1500-900 -LP Filter MHz BP 2075MHz 1475 MHz IN 5590 4990 MHz MHz **OPTIONAL 2083-0915 Translator Block Diagram

Available Options

NOTE 1: dBc is relative to the COMPOSITE Output Level

NOTE 2: Spurs over MAX IN to MAX IN -20dB Range

E - External 10 MHz Input & Output

H - High Stability (±0.01ppm) Internal Ref

Comm. Interface/Standard RS232

Q - RS485 Remote Interface

W8 - Ethernet; w/Web Browser (WB) W18 - Ethernet: w/WB & SNMP

WOO Ethernet, W/VD & Oldin

W28 - Ethernet; w/TCP/IP, Telnet

W828 - Ethernet, W18 + W28

Connectors/Impedance

Std. - 50Ω BNC (RF IN), 50Ω BNC (RF OUT) NN - 50Ω N (RF IN),, 50Ω N (RF OUT)

SS - 50Ω SMA (RF IN), 50Ω SMA (RF OUT)

Contact Cross for other options

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