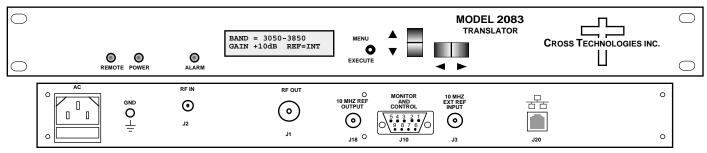
CROSS TECHNOLOGIES, INC.

DATA SHEET

12/23/14 REV. B

2083-5018# Block Translator. 2000-5500 MHz to 950-1750 MHz

2083-5018# Block Translator - The 2083-5018# Block Translator converts a 800 MHz block in the 2000-5500 MHz input to the 950-1750 MHz block with no spectrum inversion, low group delay and flat frequency response. The 2000-5500 MHz input is filtered and translated to the 950-1750 MHz block output using dual conversion. The gain can be set for 0 to +30 dB, in 1 ±1dB steps. Multifunction switches select the Gain and the input band which appear on the LCD display and can be adjusted remotely. Front panel LEDs provide indication of DC power (green). PLL alarm (red), and remote operation (vellow). Connectors are SMA female for RF input and N female for the RF output and BNC female for the external 10 MHz reference input and 10 MHz reference output. The 10 MHz output connector contains either the internal or external 10 MHz reference signal. The unit is powered by a 100-240 ±10% VAC, 47-63 HZ input power supply and housed in a 1 3/4" X 19" X 16" rack mount chassis.



2083-5018# Block Translator front and rear panels (shown with optional Ethernet)

EQUIPMENT SPECIFICATIONS*

Input Characteristics Input Impedance/RL

Input, max. no damage

Output Characteristics

Output 1 dB compression

Channel Characteristics Gain, max., Range

Spurious, Inband, indep. Group Delay, max.

Frequency Response Spurious, Inband, dep.

Frequency Sense

Frequency Stability

Controls, Indicatorss

Input Band frequency

Power; Alarm: Remote

Frequency Step

Gain

Remote

Frequency

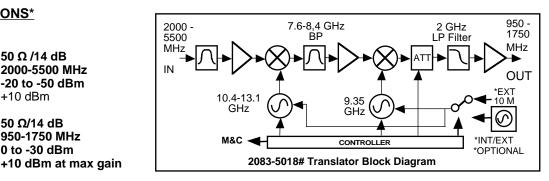
Input Level

Frequency

Impedance/RL

Output Level

50 Ω /14 dB 2000-5500 MHz -20 to -50 dBm +10 dBm 50 Ω/14 dB 950-1750 MHz 0 to -30 dBm



+30 dB, ± 2 dB, adjustable from 0 to +30 dB in 1 ± 1dB steps ± 1.5 dB, 800 MHz bandwidth; ± 0.5 dB, 36 MHz increment < -50 dBC (<-55 typical) in band, signal dependent, 950-1750 MHz out, at max gain < -55 dBC (<-60 typical) in band, signal independent, 950-1750 MHz out, at max gain 0.015 ns/MHz², parabolic, 0.03ns/MHz, linear, 1 ns ripple, 36 MHz BW Non-inverting Synthesizer Characteristics

> ± 0.01 ppm internal reference; external reference input 10 MHz minimum for Fc of 2.4 - 5.1 GHz 3 dBm ± 3 dB

10 MHz In/Out Level	3 dBm ± 3 dB				
Phase Noise @ F (Hz) >	100	1K	10K	100K	1M
dBC/Hz	-60	-70	-80	-90	-100

Direct readout LCD; manual or remote selection Direct readout LCD; manual or remote selection Green LED; Red LED; Yellow LED RS232C, 9600 baud, W8, W18, W28 Ethernet, optional

Other RF In/RF Out Connector 10 MHz Connectors Alarm/Remote Connector Size Power

SMA (female) / N (female) BNC (female), 75Ω, works with 50 or 75 ohms DB9 (female) - NO or NC contact closure on alarm 19 inch standard chassis 1.75" High X 16.0" Deep 100-240 (±10%) VAC, 47-63 Hz, 30 watts max.

Available Options

W31 - Ext. Temp 0C to +50C Comm. Interface/Standard RS232 Q - RS485 Remote Interface W8 - Ethernet: w/Web Browser (WB) W18 - Ethernet: w/WB & SNMP W28 - Ethernet; w/TCP/IP, Telnet

Contact Cross for other options

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

Request A Quote