

DATA SHEET

9/08/09 **Rev. C**

2083-2215 Dual Translator

2083-2215 Dual Translator - Consists of two converters (inverted spectrums) each of which convert a **1.725 - 2.175** GHz signal to a **0.95-1.4** GHz (**LO =3.125 GHz**). The two 1.725 - 2.175 GHz inputs are bandpass filtered and then mixed with a 3.125 GHz synthesized local oscillator (LO) signal to 0.95-1.4 GHz. The mixer output is applied to the output filters and amplifier. The converters have a nominal gain of 0 dB. All connectors are 75 ohm BNC female. Front panel LEDs light when DC power is applied (green) and when a PLL alarm occurs (red). The 2083-2215 is powered by a 100-240 ± 10% VAC power supply and housed in a 1.75" X 19" X 16" 1RU chassis.

0			DEL 2083 ANSLATOR		ис. О
Power AL					0
	CHANNEL 1 OUTPUT OUTPUT J2 J1	MONITOR AND CONTROL	INPUT O J4	CHANNEL 2 OUTPUT	0 0
EQUIPMENT SPECIFI Input Characteristics Input Impedance/RL Frequency, Input Level Input 1 dB compression Output Characteristics	CATIONS* 75 Ω /12 dB 1.725-2.175 GHz -10 to -30 dBm 0 dBm	CHA IN 1.725 1.725 1.725 1.72-2 GHz BP GHz BP 3.12-2-2 GHz BP 3.12-2-2 GHz BP 3.12-5 GHz		ALARM	<u>CH A</u> TUC
Impedance/RL Output 1 dB compression Output Level, Range Frequency	75 Ω/12 dB 0 dBm -10 to -30 dBm 0.95-1.4 GHz	CH B to 2.175 GHz CHAN	INEL B - SAME AS AB	1.4	<u>CH B</u> DUT
Channel CharacteristicsGain at band center0 dB ±2 dB, fixedFrequency Response±1.5 dB, 0.95-1.4 GHz out; ± 0.7 dB, any 36 MHz incrementFrequency SenseInverting (1.725 GHz Translates to 1.4 GHz, 2.175 GHz Translates to 0.95 GHz)Intermodulation<-50 dBC for two carriers each at -13 dBm out					
LO frequency Frequency Accuracy	3.125 GHz ± 1.0 ppm max		_		
Phase Noise @ F (Hz) > dBC/Hz Indicators DC Power; PLL Alarm Other Connectors Connector, Alarm Size	100 1K 10K -70 -80 -80 Green LED; Red LED RF in and RF Out, BNC, 1 000000000000000000000000000000000000	female, 75 ohm closure on Alarm			
Power	100-240 ± 10% VAC, 47-				

*+10 to +40 degrees C; 2000 meters max elevation; 80% max humidity; Specifications subject to change without notice.

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