

DATA SHEET

Rev. C 05/28/14

2083-0372 Dual Translator, 370 ± 150 MHz to 720 ± 150 MHz

<u>2083-0372 Dual Translator</u> - Consists of two converters (inverted spectrums) each of which convert a 370 \pm 150 MHz signal to a 720 \pm 150 MHz (LO =1.09 GHz). The two 370 \pm 150 MHz inputs are filtered and then mixed with a 1.09 GHz synthesized local oscillator (LO) signal to 720 \pm 150 MHz. The mixer output is applied to the output filters and amplifier. The converters have a nominal gain of 0 \pm 2 dB. All connectors are 75 ohm BNC female. Front panel LEDs light when DC power is applied (green), a PLL alarm occurs (red), the unit detects presence of EXT input (yellow). The 2083-0372 is powered by a 100-240 \pm 10% VAC power supply and housed in a 1.75" X 19" X 16" 1RU chassis.

•		O MODE TRANS	LATOR	
• • Ext ref power	ALARM	0		
○ AC □ □ □ □ □ □ □ □ □ □ □ □	CHANNEL A RF OUT O J2 J1		z F RF IN	NNNEL B O RF OUT J5 O
$\begin{array}{ c c c c c c } \hline EQUIPMENT SPECIFICATIONS^{\star} \\ \hline Input Characteristics \\ Input Impedance/RL 75 \Omega / 12 dB \\ Frequency, 370 \pm 150 MHz \\ Input Level -10 to -50 dBm \\ Input 1 dB compression 0 dBm \\ \hline Output Characteristics \\ Impedance/RL 75 \Omega / 12 dB \\ Output 1 dB compression 0 dBm \\ Output Level, Range -10 to -50 dBm \\ Frequency 720 \pm 150 MHz \end{array}$		$\begin{array}{c} \underline{CH \ A} \\ \underline{IN} \\ \underline{IN} \\ \underline{Hz} \\ \underline{IN} \\ \underline{3.125} \\ \underline{3.125} \\ \underline{GHz} \\ \underline{Hz} \\ Hz$		
Channel Characteristics Gain at band center Frequency Response Frequency Sense Intermodulation Spurious Response 0.22-0.52GHz Feedthru LO rejection Synthesizer Characteristics LO frequency Frequency Accuracy	<-20 dBm, LO at the output			
Phase Noise @ F (Hz) > dBC/Hz	100 1K 10K -70 -80 -85	100K 1M -95 -110	E - External 10	able Options) MHz ref in & out ity (±0.01ppm) Internal Ref
Indicators Power; PLL Alarm; Ext.Ref. Green LED; Red LED; Yellow LED Other RF in and RF Out, BNC, female, 75 ohm Connectors RF in and RF Out, BNC, female, 75 ohm DB9 - NO or NC contact closure on Alarm DB9 - NO or NC contact closure on Alarm Size 19 inch, 1RU standard chassis 1.75"H X 16.0"D			<u>Connectors/</u> Std 75Ω BNC D - 50Ω BNC SS- 50Ω SMA	Impedance (In & Out)
Power 100-240 ± 10% VAC, 47-63 Hz, <u>15</u> watts max				

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

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