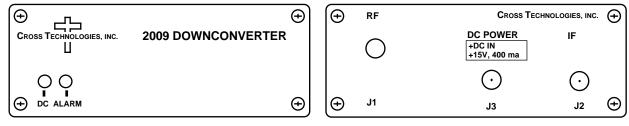
## 

## **DATA SHEET**

**REV\_B** 10/05/15

## 2009 X-band Downconverter

**2009-72P**, **-79P Downconverter** - These units convert an X-band signal to 950 - 1450 MHz with a low side local oscillator (LO) (non-inverted spectrum) for loop-back applications. Featuring low phase noise, these units are used to downconvert "clean" (having only this frequency) X-band signals to 950 - 1450 MHz for test purposes. The X-band input is mixed with a synthesized local oscillator (LO) signal to 950 - 1450 MHz. The mixer output is applied to the output amplifier providing a nomina gain of -10 dB. Connectors are 75 ohm BNC female for the 950 - 1450 MHz output and 50 ohm SMA, female for the RF input. Front panel LEDs light when DC power is applied (green) and when a PLL alarm occurs (red). DC power is provided by an exterr wall mount power supply. The 2009 can be mounted on an 1 3/4" X 19" rack mount panel (**option -R**)



## 2009-72P, -79P Downconverter Front & Rear Panels

EQUIPMENT SPECIFICA	TIONS*	-				
Input Characteristics						
Input Impedance/RL	Ω /10 db	-				
Frequency	7.2	7.25-7.75 GHz <b>(-72P)</b> ; 7.95 8.45 GHz <b>(-79P)</b>				
Input Level	-10	-10 to -20 dBm				
Input 1 dB	0 d	Bm			(	
Output Characteristics					950-1450 <b>7</b> .25 - 7.75 GH	
Impedance/RL	75	Ω/10 db			$ MHZ   =  Atten  = _{72P}$	
Frequency Band	950 -1450 MHz					
Channel Characteristics					7.95 - 8.45 GH	
Gain at band center	-1(	) dB ±2 dE	3		6.3 GHz -72P	
Spurious Response	<-4	0 dBC, 95	0-1450 M	Hz out		
Frequency Response	±2 dB, 950 -1450 MHz;					
		5 dB, any			2000 72D 70D Block Disgram	
Synthesizer Characteristic		o ab, any			<u>2009-72P, -79P Block Diagram</u>	
Frequency Accuracy		Oppm max	<b>(</b>			
Phase Noise @ F (Hz) >	10kHz	100kHz	1MHz	1		
dBC/Hz	-80	-90	-100			
Indicators						
DC Power; Alarm	Gre	en LED: F	Red LED			
Other		,				
RF In, RF Out Connectors SMA, female, BNC, female						
Size, Bench Top 4.7" wide X 1.75" high X 6.5" deep						
Size, Rack Mount		(-R) 19 inch standard chassis 1.75" high X 7.0" deep (Optional)				
Power	$120 \pm 10\%$ VAC, 60 Hz, 15 watts max, wall mount Power Supply					
Models		0 0 / 0 .	,	_,		
2009-72P	72	7.25 - 7.75 GHz in, 950 - 1450 MHz Out, Wall Power Supply				
2009-79P		7.95 - 8.45 GHz in, 950 - 1450 MHz Out, Wall Power Supply				
2000 / 01	1.5	<u> </u>		, 1100 101		

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

**Request A Quote**