

3115-79 Block Upconverter, 0.95 - 1.45 GHz to 7.9 - 8.4 GHz

The 3115-79 Upconverter converts 0.95 - 1.45 GHz to 7.9 - 8.4 GHz (non-inverted) with a 6.95 GHz local oscillator. The gain is +30 dB maximum and is adjustable in 0.5 ± 0.5 dB steps. Front panel LEDs provide indication of Remote operation, PLL Alarm and DC Power. Gain and internal/external/Auto reference frequency selection are controlled by front panel switches or remote selection (via RS-232C/485, standard; Ethernet Optional) and are viewable on the LCD Display. Connectors are Type N female for the RF and BNC female for the L-Band and external reference input and reference output. In AUTO, the 10 MHz reference stays in external if the external level is +3 dBm, ±3 dB. The 3115 is powered by a 100-240 \pm 10% VAC power supply, and housed in a 1 3/4" X 19" X 14" rack mount chassis.

	/er		1.20 - 8 G=+10.0	3.15 GHZ REF AUTO-	I	U	ODEL 3115 PCONVERTER		0 0	
			 	EXT 10 MHZ INPUT			ALARM			
EQUIPMENT SPECIFICATIONS* Front and Rear Panel										
Input CharacteristicsImpedance/Return Loss50Ω/14 dBFrequency0.95 to 1.45 GHzNoise Figure, Max.12 dB max gainInput Level range-40 to -20 dBmOutput CharacteristicsImpedance/Return Loss50Ω/18 dBFrequency7.9 to 8.4 GHzOutput 1 dB compression+5 dBm at max. gainChannel CharacteristicsGain, max; adjustmentImage RejectionSpurious, In BandSpurious, Out of BandSpurious, Out of BandSpurious, Out of BandIntermodulation-55 dBC, FL -0.9 GHz to FL -0.9 GHz and FH +0.9 GHz; FL= 7.9 GHz and FH = 8.4 GHz-55 dBC for two carriers each at -10 dBm out, GAIN = +30 dB										
Frequency Response Frequency Sense LO Characteristics LO Frequency Frequency Accuracy 10 MHz In/Out Level	 ±1.0 dB, 7.9 -8.4 GHz out; ± 0.5 dB, 40 MHz BW Non-inverting 6.95 GHz ± 0.01 ppm max over temp internal reference; ext. ref. input 3 dBm, ± 3 dB, w/ Auto-detect 						<u>W7</u> L-bar <u>W31</u> 0 to	Available OptionsW7L-band/RF front panel Monitors(-20dBC)W310 to +50 degrees C operationW87Enhanced phase noise		
Phase Noise @ F (Hz)		100	1K	10K	100K	1M	Remote M	&C Ethernet Options	5	
Standard dBC/H	l z -55	-70	-80	-85	-100	-110	W8 - Ethe	rnet w/web browser l	nterface	
Opt W87 Enhanced dBC/H Controls, Indicators Gain; Ext Ref Selection Pwr; Alarm; Rem; Mute Remote Other RF Connector L-Band Connector 10 MHz Connectors Alarm/Remote Conn. Size Power							W28 - Ethe Available (N - 500 I NF - 500 I NN - 500 S SF - 500 S SN - 500 S	 W18 - Ethernet w/SNMP (and MIB) Interface W28 - Ethernet w/direct TCP/IP Interface <u>Available Connector Options</u> N - 50Ω N-type (RF), 75Ω BNC (L-BAND) NF - 50Ω N-type (RF), 75Ω F-type (L-BAND) NN - 50Ω SMA (RF), 75Ω BNC (L-BAND) SF - 50Ω SMA (RF), 75Ω F-type (L-BAND) SN - 50Ω SMA (RF), 50Ω N-type (L-BAND) SS - 50Ω SMA (RF), 50Ω SMA (L-BAND) 		

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