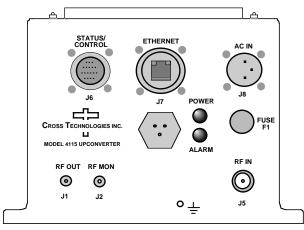


DATA SHEET

REV. D 12/07/10

4115-267 Ka-band Block Upconverter, Weather Resistant*

The 4115-267 Ka-band Block Upconverter converts 0.52 - 0.92 GHz up to 26.5 - 26.9 GHz. Front panel LEDs provide indication of DC Power, and PLL Alarms. The L-band to RF gain is **-15 to +15 dB** adjustable in 0.5 dB steps. Connectors are Type N female for the L-band, Super SMA female for the RF output. Gain, and input range select, are controlled by the Ethernet M&C. The 4115 is powered by a 100-240 ± 10% VAC power supply, and mounted in a 8" Wide X 6" High X 16" Deep Weather Resistant* Enclosure.



50Ω/14 dB

0.52 to 0.92 GHz

20 dB max gain

-20 to -5 dBm

50 Ω /14 dB

+10 dBm

26.5 to 26.9 GHz

-35 to +5 dBm

*Weather Resistant enclosures are designed to be water resistant for installation in an outdoor enclosure/antenna hut OR mounted outdoors on an antenna assembly at their specified temperature ranges. They are designed to be located "out in the elements" (water, sleet, snow, etc.) but they are *not* designed to be "submerged under" water.

If an extended temperature range is required, there is an **Extended Temperature** option (**Option W21**; -30°C to +60°C) available at an additional cost. Contact Cross for quote.

EQUIPMENT SPECIFICATIONS**

Input Characteristics Impedance/Return Loss Frequency Noise Figure, Max. Input Level range

Output Characteristics

Impedance/Return Loss Frequency Output Level Range Output 1 dB compression

Channel Characteristics

+15 ±1 dB (±2 dB, -30 to +60 deg C) (+15 to -15 dB variable in 0.5 dB steps) Gain Image Rejection > 60 dB, min SIGNAL RELATED <-50 dBC in band, -30 to +5 dBm out; SIGNAL INDEPENDENT,<-70dBm Spurious, Inband <-50 dBm Spurious, Out of band Intermodulation <-50 dBC for two carriers each at -10 dBm below maximum input and output level out **Frequency Response** ±2 dB, over RF band; ± 0.8 dB, 40 MHz BW 3 ns p-p over any 40 MHz BW in the 400 MHz output band Group Delay Frequency Sense Non-inverting

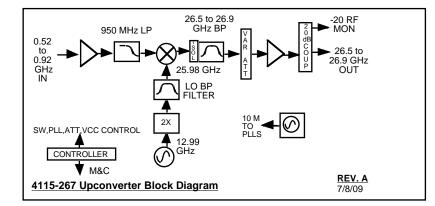
LO Characteristics

LO Frequency Frequency Accuracy	25.98 GHz ± 0.05 ppm max over temp internal reference					
Phase Noise @ F (Hz) >	100	1K	10K	100K	1M	10M
dBC/Hz	-60	-70	-80	-95	-108	-125

Controls, Indicators

Controls, Indicators	
Gain, Band, 10M Freq.	Gain, band select, and internal 10 MHz frequency via Ethernet M&C or Status/Control Connector
PLL Alarm	Red LED, External Contact Closure
Power	Green LED
Other	
RF Out, Mon Connector	Super SMA (female), 50Ω
RF In Connector	Type N (female), 50Ω
Ethernet	Standard RJ-45 Weather Resistant* Ethernet Connector, RJF6G
Size	8" Wide X 6" High X 16" Deep Weather Resistant* Enclosure
Power	100-240 ±10% VAC, 47 - 63 Hz, 20 watts max./ FCI Clipper Series CL1M1102 W/R*Connector

**+0 to +50 degrees C; Specifications subject to change without notice



Request A Quote