

# 31 Ch. Integrated Antenna Downconverter LNBY



131508

## I.F. 662 to 848 MHz, 50 dB Gain

**Part number**  
Integrated Gain

**131508**  
50 dB ( $\pm 3$  dB)

### Downconverter specifications:

RF Input Frequency	2500 to 2686 MHz
IF Output Frequency	662 to 848 MHz
LO Frequency Set	1838 MHz $\pm$ 15 KHz
LO Frequency Stability	$\pm$ 30 KHz (-40°C to +70°C); $\pm$ 50 KHz Max.
Noise Figure	1.7 dB
Gain	32 $\pm$ 2 dB; 35 dB Max.
Gain Flatness	$\pm$ 1.5 dB, $\pm$ 0.3 dB/6 MHz
Phase Noise	-90 dBc/Hz @ 10 KHz
Image Rejection	85 dB
I.F. Rejection	-80 dBc
RF Output Level (Max.) with 31 channels each	30 dBmV
Output Connector	"F" Type Female, 75 ohm
Supply Voltage	+16 to +24 VDC (through output connector)
Current	220 mA
Operating Temperature	-40°C to +70°C
Weatherproof Housing	100% Leak Test per CAI TP-00002
Finish	Polyester Powder Coat Paint
Physical Dimensions:	
Size	5.0 x 5.0 x 2.7 in. (127 x 127 x 69 mm)
Yagi Director Length	21.5 in. (546 mm)
Weight	20 oz. (555 grams)

### Antenna specifications: (with Yagi director)

Gain	17 dBi
Front to Back Ratio	25 dB
Side Lobe Level	-12
3-dB Beam Width	24°
Cross Polarization	20 dB

*All specifications are typical at 25°C unless otherwise specified.*