

# Integrated Antenna Downconverter LNBY

## I.F. 222 to 408 MHz, 50 dB Gain



131740

### Part number

Integrated Gain

### 131740

50 dB ( $\pm 3$  dB)

### Downconverter specifications:

RF Input Frequency	2500 to 2686 MHz
IF Output Frequency	222 to 408 MHz
LO Frequency	2278 MHz $\pm$ 20 KHz
LO Frequency Stability	$\pm 30$ KHz (-40°C to +70°C); $\pm 50$ KHz Max.
Noise Figure	4.5 dB Max.
Gain	32 $\pm$ 3 dB
Gain Flatness	$\pm 1.5$ dB, $\pm 0.25$ dB/6 MHz
Phase Noise	-85 dBc/Hz @ 10 KHz
Image Rejection	45 dB
PCS Rejection (1930 MHz – 1990 MHz)	80 dB
In band output spurious/harmonics	-80 dBm
I.F. Rejection	-75 dB
I.M.D.*	-50 dBc
Third Order Intercept Point	24 dBm
RF Output Level (Max.)	
with 31 channels each	33 dBmV
Output Connector	"F" Type Female, 75 ohms
Supply Voltage	+16 to +24 VDC (through output connector)
Current	225 mA
Operating Temperature	-40°C to +80°C
Weatherproof Housing	100% Leak Test per CAI TP-00002
Finish	Polyester Powder Coat Paint
Physical Dimensions:	
Size	5.2 x 5.2 x 2.7 in. (132 x 132 x 69 mm)
Yagi Director Length	21.5 in. (555 mm)
Weight	20 oz. (710 grams)

### Antenna specifications: (with Yagi director)

Gain	17 dBi
Front to Back Ratio	18 dB
Side Lobe Level	-12
3-dB Beam Width	24°
Cross Polarization	20 dB

*\*Two Equal Tones @ -3.0 dBm each at the output.*

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