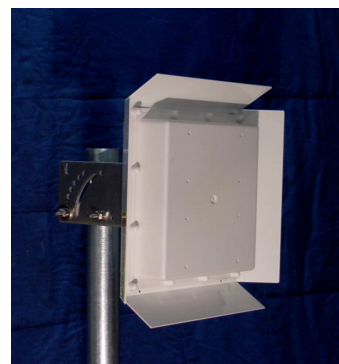


Product Specifications

High Gain Low Cost QD Series Integrated MMDS Downconverters

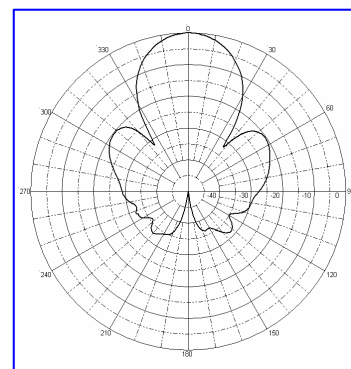
Now MMDS system designers and engineers can reduce installation budgets with a product designed to operate in demanding of RF environments, while also protecting the LNA from the inevitable introduction of new interfering services. The new QD Series of MMDS downconverters uses a “filter first” approach for pre-LNA protection against PCS, WCS, and radar services. Unwanted interfering carriers are filtered out before they reach the first amplifier stage in the circuit, preventing the amplifier from being overdriven and allowing use in areas previously not available. The Hi-Q style filtering offers superior discrimination at the lowest insertion loss. QD series integrated MMDS downconverters are directly matched to an antenna, allowing full RF integration. The antennas are Conifer’s 16dB QD Series of S-band antenna products. The downconverters are compatible to multiple modulation schemes, including 64/256 QAM, and are available in a variety of amplifier gains. Superior lightning suppression has been incorporated into the design providing for long field time life expectancy. Different mount options are available to serve a wide variety of installation requirements. The L mount provides for positive or negative elevation adjust.



QD-6032(W)-L Shown

Features and Options

- *Very Low Cost*
- *Pre-LNA filtering*
- *Digital compatibility*
- *Superior discrimination*
- *On Board Lightning Protection*
- *Available in White or Grey*
- *Standard or Elevation Mount*



AZIMUTH PATTERN

Ordering Information

Type #	Antenna Type	LNA Filter	Amplifier Gain
QD-6032(G) Grey	16dBi Planar Array	Yes	32dB
QD-6036(G) Grey	16dBi Planar Array	Yes	36dB
QD-6032(W)White	16dBi Planar Array	Yes	32dB
QD-6036(W) White	16dBi Planar Array	Yes	36dB
DC-6032	None	Yes	32dB
DC-6036	None	Yes	36dB

****Note: Power Supply Not Included, Order Separately**
SPECIFICATIONS SUBJECT TO CHANGE

Conifer Wireless
8220 East Gelding Drive
Scottsdale, AZ 85260, USA
Phone 480-315-1501
www.coniferusa.com



Product Specifications

MAG Series Integrated MMDS Downconverters

Model Type QD-6032X-X*

Model Type QD-6036X-X*

Parameter	Specification
RF Input Frequency	2500 to 2686 MHz
IF Output Frequency	222 to 408 MHz
LO Frequency	2278 MHz \pm 15 KHz
LO Frequency Stability	\pm 30 KHz (-40°C to 70°C);
Gain (Converter)	32dB or 36dB, (Depending on Model)
Gain Flatness	\pm 3.0 dB, \pm 0.5 dB/6 MHz
Noise Figure	1.7 dB Typical
Phase Noise	-93 dBc/Hz @ 10 KHz
PCS Rejection (1930-1990 MHz)	90 dB (40 dB pre-LNA)
RF to IF Filtering:	
@2450 MHz	35dB
@2750 MHz	25dB
@2800 MHz	45dB
IF Rejection	-80 dBc
IMD	-50dBc (with -1dBm output, 2-Tone Test)
In Band Spurious/Harmonics	-80dBm
3 rd Order Intercept Point	24dBm
Maximum Output Level:	
w/31 Channel Load	35dBm/Channel
Group Delay	\pm 10 ns. over any 6 MHz
Dynamic Recovery Time	5 μ sec. (after input overload of +20 dBm @ 1 μ sec. pulse width)
Output Connector	Type F Female, 75 Ω
Lightning Suppression	Transient Suppressor
Supply Voltage	+16 to +24 VDC (through input connector)
Current	235 mA
Operating Temperature	-40°C to +70°C
Weatherproof Housing	Die Cast, 100% Leak Tested
Finish	Chem. Film Conversion; MIL-C-5541, Class 3, Clear
Physical Dimensions (less antenna bracket)	10.75 x 11 (.267 x .28)
Weight	9.5 oz., (260 grams)

CUSTOM FREQUENCY PLANS AVAILABLE ON REQUEST

*where x-x is antenna color and mount type suffix

**33 channel versions available upon request (6 MHz/channel)

PS-1341: 120 VAC power supply

PS-2342: 220 VAC power supply

Prices and Specifications Subject To Change

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