



# 1.8 GHz, Frequency Converters

## 5 Watt

### UDC2418-05

This UDC converts any 2.4GHz radio to a 1.8GHz unit for use in military applications.

This 5 watt version, offers a high power solution in a small package. The unit is packaged in outdoor watertight housing with power over coax.



Also available in 10 Watt and 50 watts versions

## Specifications

### Electrical:

Frequency band to Antenna	1760-1850 MHz
Frequency band to Radio	2400-2490 MHz
Operation	TDD, Time Division Duplex
Local Oscillator	640 MHz
Transmit Output Power	5 Watt (37dBm) +/- 1dB
Transmit Input Power	+3dBm ~ +17dBm
Transmit Trigger Point	+3 dBm
Transmit Gain	20 dB
Receive conversion gain	20dB +/- 1dB
P1dB	+37 dBm
Noise Figure	3.5dB
Frequency Stability	+/-2.5ppm
Power Consumption	320mA Rx, 2A Tx @ 12 VDC

### Mechanical:

#### Up Down Converter unit

Dimension:	3.5" x 5.8" x 1.2" (with connectors)
Enclosure:	Machined aluminum housing with Anodized finish
Connectors:	Type N female
Weight:	1lb, 5 Oz.

#### DC Injector

Dimension:	1.4" x 3.5" x 1.0" (with connectors)
Enclosure:	Machined aluminum housing with Anodized finish
Connectors:	Type N female
Weight:	4.7 Oz. (134 g)