

# PDL 140D

## PDL09920140NZD000

### L-Band to 140 MHz Data Grade Downconverter

#### General Description:

The **PDL09920140NZD000** is an ultra-stable frequency converter that translates a 992 MHz L-Band channel to a 140 MHz IF channels. Based on Quintech's PLL stabilized fixed channel frequency converters, the PDL features a stability performance that meets the IESS 308/309 standard and is suitable for current high speed data transmission rates and high order modulations.

#### Specifications:

<b>Input Frequency:</b>	992 MHz, non-inverting
<b>Output Bandwidth (-3dB):</b>	80 MHz
<b>Input Power Level:</b>	-50 to -20 dBm
<b>Overall Gain/Loss:</b>	0 dB $\pm$ 2 dB
<b>Output Frequency:</b>	140 MHz IF
<b>L.O. Stability:</b>	$\pm$ 1 ppm
<b>Input Return Loss:</b>	10 dB
<b>Output Return Loss:</b>	14 dB
<b>Spurious:</b>	-50 dBc
<b>Phase Noise:</b>	<b>Offset (Hz) (dBc/Hz)</b>
	10 -58
	100 -72
	1,000 -73
	10,000 -76
	100,000 -100
	1,000,000 -110
<b>Output Connector:</b>	BNC, 75 $\Omega$
<b>Input Connector:</b>	Type F, 75 $\Omega$
<b>Power Requirements:</b>	100-240 V~, 50/60 Hz
<b>Power Consumption:</b>	17 W
<b>Operating Temperature:</b>	+10° to +60° C
<b>Mechanical:</b>	1 RU (1.75" H x 19" W x 12.5" D)
<b>Weight:</b>	7.5 lbs. gross (boxed), 5.0 lbs. net

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### Special Instructions:

To utilize the PDL09920140NZD000, connect a customer-specified L-Band channel to the “L-BAND” connector on the rear panel of the unit. The 140 MHz output will be present at the “140 MHz” connector, also on the rear panel.

NOTE: The PDL09920140NZD000 has been designed for indoor use only. Opening the unit will immediately void the warranty.

