

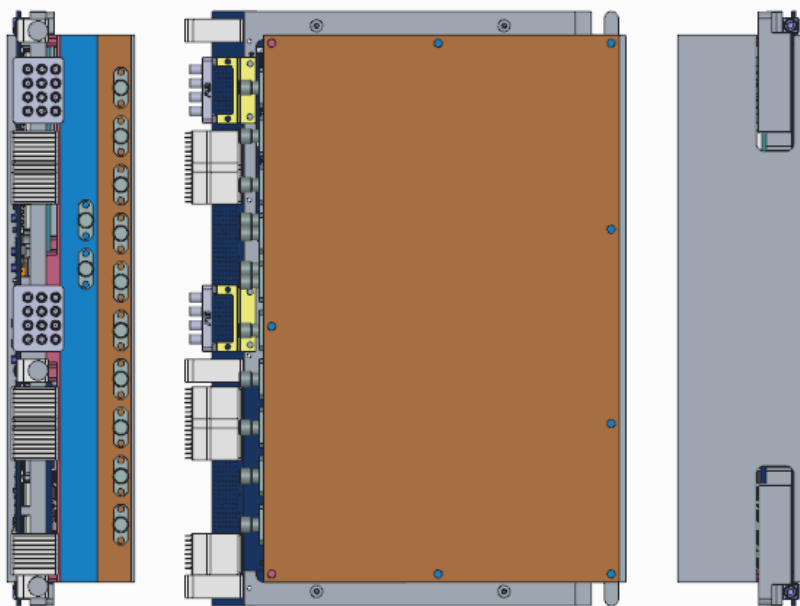


VPXST-6500 Series

VPXST-6500-UCDC DUAL CHANNEL UP & DUAL CHANNEL DOWNCONVERTER

VPXST-6500-DC FOUR CHANNEL DOWNCONVERTER

VPX, 2 SLOT, 6U



WIDE FREQUENCY RANGE: 2 to 18 GHz, 1GHz BW

APPLICATIONS

- Electronic Warfare (ECM)
- Monopulse RADAR Receivers
- Radar Warning Receiver (RWR)
- Real Time Spectrum Analysis (RTSA)

FEATURES

- Wide Frequency Tuning Range: 2 to 18 GHz (other bands, contact factory)
- 1GHz BW L-Band Output
- Ultra Fast Tuning
- Two/Four Phase Matched Tuners in 6U VPX, 2 Slot Wide
- Two Up Converter/ Two Down Converter in 6U VPX, 2 Slot Wide
- Option for Two independent Synthesizers (LO's)
- Phase Coherent Switching



SPECIFICATIONS AT 25°C

DOWNCONVERTER SPECIFICATIONS

FREQUENCY

Input Tuning Range:	2 – 18 GHz
Synthesizer Tuning Speed:	1 microsecond

RF SECTION

Noise Figure:	15 dB, typ
RF Attenuation	60 dB, 1 dB step
Gain:	15 dB

DYNAMIC RANGE

Image Rejection:	>80 dB
Internally Generated Spurious:	-70 dBc max
Input IP1:	-5 dBm

WIDEBAND L BAND OUTPUT

Center Frequency:	1.8 GHz (contact factory for other options)
Bandwidth (3dB):	1 GHz
Gain Flatness Over IF BW:	+/- 1.5 dB (typical over 800 MHz)
Gain Control:	15 dB, 1 dB step
Group Delay:	1.5 nsec over 80% of BW

*Specifications are subject to change without notice.



SPECIFICATIONS AT 25°C

UPCONVERTER SPECIFICATIONS

FREQUENCY

Output Tuning Range:	2 – 18 GHz
Synthesizer Tuning Speed:	1 microsecond

RF SECTION

Noise Figure:	12 dB, typ
RF Attenuation	40 dB, 1 dB step
Gain:	20 dB

DYNAMIC RANGE

Image Rejection:	>80 dB
Internally Generated Spurious:	-75 dBm max
In Band Spurious:	<-60 dBc
Output P1dB:	15 dBm

WIDEBAND L BAND INPUT

Center Frequency:	1.8 GHz (contact factory for other options)
Bandwidth (3dB):	1 GHz
Gain Flatness Over IF BW:	+/- 1.5 dB (typical over 800 MHz)
Gain Control:	40 dB, 1 dB step
Group Delay:	1.5 nsec over 80% of BW

*Specifications are subject to change without notice.



ENVIRONMENTAL

Operating Temperature Range: -20° to +70° C

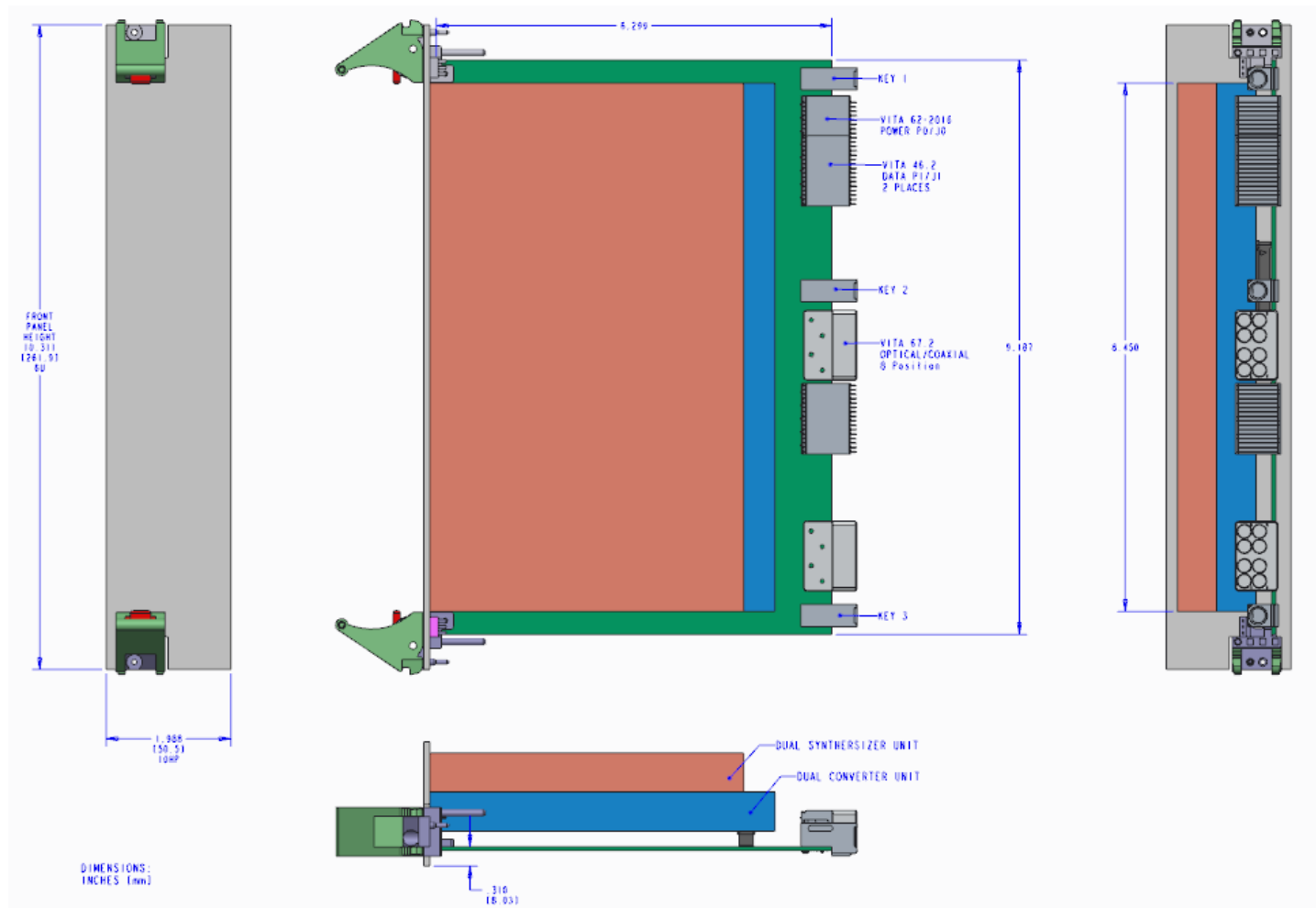
Power Consumption: 80 Watts (typ)

MECHANICAL

Size: VPX 6U, two slot wide

Weight: 3.5 Pounds

*Specifications are subject to change without notice.





Ordering Matrix

Frequency Range	Channel Types	Unit Part Number
2 – 18 GHz	2 DC & 2 UC	VPXST-6500-UCDC
2 – 18 GHz	4 DC	VPXST-6500-DC

ABOUT FEI-ELCOM TECH, Inc

Elcom designs and manufactures instruments and modules in the RF and Microwave frequency spectrum for broadband and narrow band applications in ATE, Aerospace/ Defense, SIGINT and commercial communications. Proprietary technologies include low phase noise fast switching direct analog synthesis, low noise indirect PLL designs, and RF DSP up to 40GHz.

FOR ADDITIONAL INFORMATION PLEASE CONTACT

FEI-Elcom Tech, Inc.

260 Union Street Northvale, New Jersey 07647

Tel: (201) 767-8030

Fax: (201) 767-1326

sales@fei-elcomtech.com

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