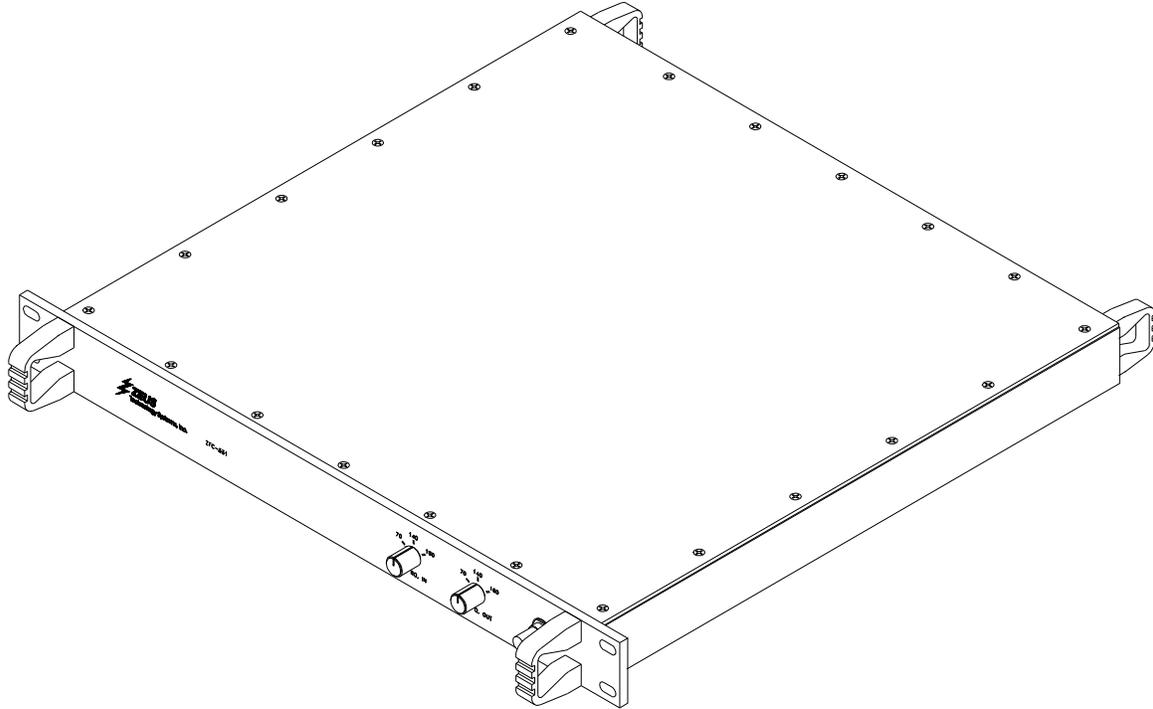




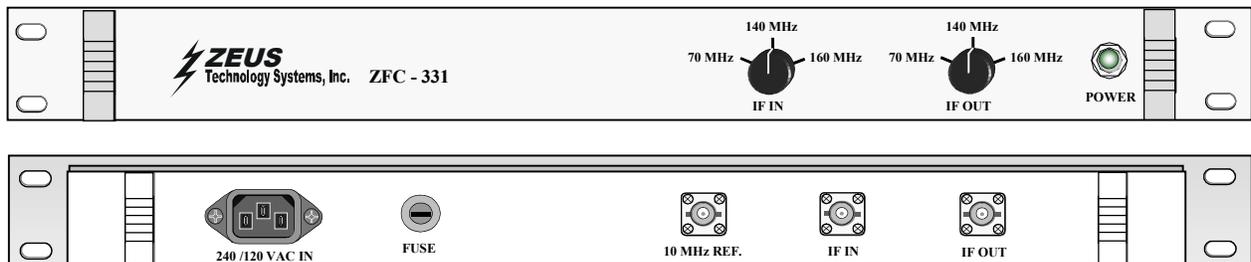
ZEUS *Technology Systems, Inc.*
Technical Data Sheet

ZFC-331
IF to IF Frequency Converter



DESCRIPTION

The **ZFC-331** converts a 70 MHz, 140 MHz, or 160 MHz IF input to a 70 MHz, 140 MHz, or 160 MHz IF output as determined by the user. The input is first up converted from one of three selectable IF input frequencies. It is then processed by a high performance filter. The signal is finally translated to one of three selectable IF output frequencies. The unit uses phase linear filters as well as phase noise optimized synthesizers to provide excellent performance for complex modulated signals including QAM. The IF input and output frequencies are selectable by front panel switches. The **ZFC-331** also provides an external 10MHz reference input. The external reference signal is detected and, when present, automatically selected.



Zeus Technology Systems, Inc.
601 N. Hammonds Ferry Rd., Suites H-J, Linthicum, MD 21090
Tel: 410.789.8888 Fax: 410.789.4444

Represented by: COWBOY Industries Inc.
12694 FM 2127 Bowie, TX 76230
Tel: 800.410.0181 Fax: 800.836.7579

ZFC-331 SPECIFICATIONS

Input Center Frequency	70MHz, 140MHz, or 160 MHz
1 dB Compression level	-10 dBm
Input Connector	BNC
Output Center frequency	70 MHz, 140 MHz, or 160 MHz
Output / Input bandwidth (-3dB)	60 MHz, min.
Output Connector	BNC
Impedance - all Signal Ports	50 Ohms, nom.
Image rejection	> -40 dBc
Gain, through	+/- 2 dB
Group Delay Variation	10 nsec. p-p, max.
Passband Ripple	+/- 1 dB, max
Phase Noise	-90 dBc / Hz @ 10KHz Offset, typ.
External Reference Frequency	10 MHz
External Reference signal level	0 dBm, +/- 2 dBm, auto sensing
External Reference Connector	BNC
Control	Front Panel selector knobs
Power	108-240 VAC
Temperature - Operating	0 - 50 degrees C
Size	1 – U Rack Chassis