



ZEUS *Technology Systems, Inc.*
Technical Data Sheet

ZFC-2026
Frequency Converter

DESCRIPTION

The ZFC-2026 is a wideband frequency upconverter, providing frequency translation from near baseband to a selected portion of S-band. Custom quadrature filtering is used to suppress the negative image response without sacrificing close in linear phase performance. This unit is designed to survive shock, vibration, and temperature ranges associated with rough handling or military transport and operation. All I/O connections are made to a single surface of the unit to minimize clearance requirements for placement of the unit within the user's system.

FEATURES

- 70 to 500 MHz instantaneous input BW
- 2670 MHz to 3100 MHz output
- Minimal Power: ≤ 60 Watts
- Low Noise Figure: 14dB
- Rugged Design and Packaging

ZFC-2026 SPECIFICATIONS

Input Frequency Coverage ---	70 – 500 MHz
Output Frequency Coverage ---	2670 – 3100 MHz
Low Sideband Suppression ---	20 dB, nom.
Conversion Gain ---	10dB, nom.
Noise figure ---	14 dB, max.
Input Third Order Intercept ---	+15 dBm, nom.
Storage and Operating Temperature --- (allow 5 min. warmup time to full spec oprn)	0 to +55 Deg. C
Supply Power ---	115V/400 Hz, nom. @ 60W
10 MHz Ext. Freq. Ref. Input (optional) ---	0 dBm, +/- 6 dB
Physical Dimensions (inches) ---	7.8H x 10.2W x 19.6L
Weight ---	30 lbs., max.
Humidity ---	20 – 90 %, non-cond.
Vibration ---	5 to 20 Hz, 0.1 inch peak amplitude 20 to 500 Hz, 2.0 Gs peak amplitude
Shock ---	Per Mil-Std-810D, Method 516.3, procedure 1, with peak shock level relaxed from 12 Gs to 2 Gs
I/O ---	All connections to front panel surface only, all signal conns SMA