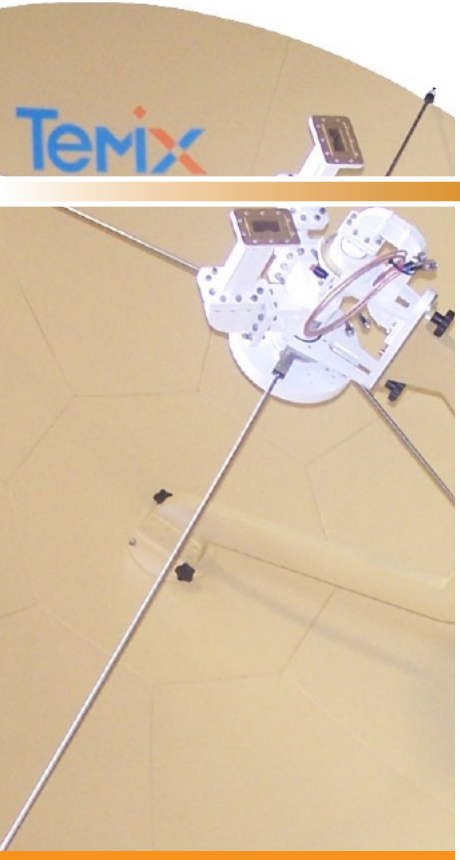

Frequency Block Down Converter Ka-Band
FCV-KAL-D-02-A

The TEMIX Frequency Converters shape the next-generation satellite transmission with its breakthrough leading edge technology, state of the art design and unprecedented reliability.

TEMIX Frequency Converter series may combine up to 2 embedded converters in a single 1RU shelf with extensive monitor and control via front panel, serial ports EIA232/EIA485 and Ethernet. Features Best in Class RF characteristic, Flexible reference with autosensing can lock to external 10 MHz reference or utilize built-in high stability reference oscillator.

KEY FEATURES	
Superior RF performance	Single or dual band frequency converters in a single 1RU chassis (1.75" H x 19" W x 19" D)
User Friendly front panel with menu driven display	1:N Redundant ready

RF Performance	
RF Frequency Range	21.20-22.20 GHz
IF Frequency Range	950-1950 MHz
LO Frequency	20.25GHz
Input Return Loss	18 dB
Output Return Loss	13 dB
Noise Figure	15 dB max
Conversion	Single Conversion; non-inverting
Output Power at 1dB CP	7 dBm min
Conversion Gain	25dB +/- 1dB
Gain Flatness	+/-1dB max over full band; +/-0.5dB max over any 40MHz

Gain Stability	+/-0.5dB over temperature
Gain Control	20dB in 0.1dB steps
External Reference Frequency	10MHz
Phase noise: @ 10Hz	-60dBc
@ 100Hz	-80dBc
@ 1kHz	-93dBc
@ 10kHz	-97dBc
@ 100kHz	-107dBc
@ 1MHz	-127dBc
Spurious (non signal related)	-60dBc
MONITOR & CONTROL FEATURES	SNMP, HTTP (Web Browser interface), or RS232/RS422/RS485
POWER SUPPLY	90 to 265VAC 50/60Hz PFC
MECHANICAL	19" Rack x 1RU x 19"
IF/RF CONNECTORS	IF: BNC; RF: N; 10MHz Ref In/Out: BNC
ENVIRONMENTAL	Operating temperature: 0 to 60 deg.C Storage Temperature: -40 to +85 deg.C Humidity: 0 to 95% (non-condensing)

Main Features

- **Phase noise as per IESS308/309**
- Spurious below -65dBc
- Superior Gain flatness

*The Information included in this data sheet may be changed without advise. rev_01/18

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