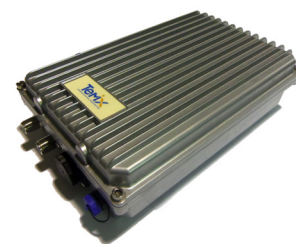


# Frequency Block Converter Ku-Band FCV-KUL-U-01-A-ODU

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 ODU series combines high performances in an outdoor housing capable to operate under most extreme environmental conditions. Monitor and control is from serial port EIA485, Ethernet or Fiber Optic. Features Best in Class RF characteristic with external 10 MHz reference or built-in high stability reference oscillator.

RF Performance	
RF Frequency Range	14.500-14.800 GHz (opt. 13.750-14.800GHz)
IF Frequency Range	950-1250 MHz (950-2000 MHz)
LO Frequency	12.8 GHz
Input Return Loss	16 dB min
Output Return Loss	18 dB min
Noise Figure	5 dB max
Conversion	Single Conversion; non-inverting
Output Power at 1dB CP	10 dBm min
Conversion Gain	30dB +/- 1dB
Gain Flatness	+/-1dB max over full band; +/-0.5dB max over any 40MHz
Gain Stability	+/-1.5dB over temperature
Gain Control	20dB in 0.1dB steps
External Reference Frequency	10MHz
Phase noise:	
@ 100Hz	-70dBc
@ 1kHz	-80dBc
@ 10kHz	-90dBc
@ 100kHz	-95dBc
@ 1MHz	-115dBc
Spurious (non signal related)	-60dBc
MONITOR & CONTROL FEATURES	SNMP, HTTP (Web Browser interface), or RS485, or Fiber Optic
POWER SUPPLY	90 to 265VAC, 50/60Hz, 25W
MECHANICAL	200 x 290 x 90 mm
RF CONNECTORS	RF IN: SMA-f; RF OUT: SMA-f; RF MON: SMA-f
ENVIRONMENTAL	Operating temperature: -30 to +60 °C Storage Temperature: -40 to +85 °C Humidity: 0 to 95%
Degree of Protection	IP67

## Main Features

- Phase noise 8dB better than IESS308/309
- Spurious below -60dBc
- Superior Gain flatness

\*The Information included in this data sheet may be changed without advise. rev\_01/18

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