

MCX-Uz Series

Channel Converters



○ Features & Benefits

- Rack Mountable - 1 EIA (1.75") Rack Space
- UHF to VHF Channel Conversion
- Crystal Controlled PLL Synthesizer Permits Use in Adjacent Channel Systems
- Balanced Mixer Design Provides Maximum Isolation Between Local Oscillator, Input and Output
- Excellent Image Rejection Characteristics

The MCX-Uz is a low cost, professional quality, single channel converter. This unit is designed for use in commercial grade, MATV or SMATV headends. The MCX-Uz features single conversion circuitry for channel changes, eliminating the need for double conversion or external traps and filters. Some channel conversions are forbidden (see chart) and will require the double conversion process used in Blonder Tongue's CAP Series (Channelized Heterodyne Processor) or SAIP Series (Agile Input, Channelized Agile Output Heterodyne Processor). The MCX-Uz converts any UHF channel (470 to 806 MHz) to any VHF channel in the 50 to 216 MHz frequency range (with exceptions). These converters feature crystal controlled PLL synthesizers and a balanced mixer design, thereby allowing operation in adjacent channel systems. The unit is both electrically and mechanically compatible with Blonder Tongue's Low Cost Single Channel VHF Strip Amplifier (ZSCA) and Bandpass Filter (BPF-z).

○ Specifications

RF

Frequency Range
Input: 470-806 MHz
Output: 50-216 MHz
Flatness: 0.8 dB
Input Signal Level
Minimum: -4.0 dBmV
Gain: 20 dB
Gain Control Range: 10 dB
Noise Figure: 9.0 dB
Frequency Stability: ± 15 kHz
Selectivity
 ± 9 MHz: -25 dB
 ± 21 MHz: -50 dB
Spurious Outputs - L.O. Related
At Output: -38 dBmV
At Input: -30 dBmV
Image Rejection: -55 dB
Hum Modulation: -60 dB
Impedance - All Ports: 75 ohm
Return Loss
Input: 14 dB
Output: 14 dB

General

Power Requirements
Voltage: 117, $\pm 10\%$ VAC
Frequency: 60 Hz
Power: 12 W
Temperature Range: -20 to +50 °C

Mechanical

Dimensions (WxHxD):
19.0 x 1.75 x 2.00 in.
483 x 44 x 51 mm

Weight: 4.0 lbs., 1.82 kg

Connectors (Rear Panel)

RF Input: "F" Type, Female
RF Output: "F" Type, Female

Connectors (Front Panel)

Test Port: "F" Type, Female

Controls (Front Panel)

RF Output Level: Control

Indicators (Front Panel)

Power ON: LED, Green

Refer to product instruction manual for additional specification measurements and notes.

○ Ordering Information

| Model | Stock No. | Description |
|--------|-----------|---|
| MCX-UZ | 1479 | Channel Converter 470-806 MHz (UHF), 50-220 MHz (VHF) |

Available through **Multicom, Inc.** 1076 Florida Central Parkway, Longwood, FL 32750

Ph: 407-331-7779 Toll Free: 800-423-2594 Fax: 407-339-0204

www.multicominc.com