



Patent Pending

MODEL QL-1010*

WIRELESS CABLE/MMDS BLOCK DOWNCONVERTER 31 CHANNEL CAPACITY

Conifer's Model QL-1010 is the newest generation of our QL-2781 which has been so successfully used by wireless cable operators. The QL-1010 features the latest developments in block conversion technology, and is ideally suited for processing ALL or a number of channels in the ITFS/OFS groups (2500 - 2686MHz). The quartz-locked oscillator rigidly stabilizes output frequencies regardless of environmental conditions, and will not introduce spurious products to the system, making the simultaneous conversion of all 31 available channels practical.

Other key features include the incorporation of an interdigital input bandpass filter which is proven to offer excellent rejection of unwanted image frequency and other out-of-band signals.

Additionally the QL Series input and/or output frequencies can be modified to block downconvert a non-standard frequency scheme and is compatible with PAL and SECAM international formats.

Advanced manufacturing techniques are used on all QL Series downconverters featuring on-serting of Surface Mounted Devices (SMD), ensuring a top quality, consistently performing product.

*QL-1010 REPLACES THE QL-2020 ITFS

FEATURES

- 31 channel capability
- Single input for ITFS/OFS bands
- High "Q" interdigital input bandpass filter
- Excellent IF rejection
- GaAs FET RF amplification
- Surface Mounted Device (SMD) manufacturing techniques
- Compatible systems with scrambling/addressable systems
- International compatibility with PAL/SECAM formats
- Design flexibility with international input/output frequency requirements

SPECIFICATIONS

| | |
|------------------------------------|-------------------------|
| Gain (Typ.) | 21dB |
| Noise Figure (Typ.) | 4.5dB |
| IF Rejection (min.) | -80dB |
| Image Rejection (min.) | -46dB |
| Two Tone Intermod (Typ.) | -45dB |
| Spurious Output (Typ.) | -61dBm |
| RF Input Level (min.)* | -59dBm |
| RF Input Level (max.) | ITFS BAND -17dBm |
| RF Output Level (max.) | ITFS BAND +3dBm |
| Response Flatness | ITFS BAND ±1.5dB |
| Frequency Stability -40° to +60° C | ±50KHz |
| Voltage Required (range) | +15 to +24VDC |
| Current Required | 170mA |
| Input Frequency ** | ITFS/OFS 2500 - 2686MHz |
| Output Frequency ** | 222 - 408MHz |
| Input Impedance ("N" Type) | 50 ohms |
| Output Impedance ("F" Type) | 75 ohms |
| Test Jack ("F" Type) | -20dB |
| Dimensions (inches) | 8-1/2 x 2-1/2 x 2-1/2 |
| Weight | 1.4 lbs. |
| Channel Capacity | 31 @ 6MHz ea. |

* Minimum RF Input Level for 45dB S/N.

** Different input and/or output frequencies may be available
consult factory for details.

Manufactured in Burlington, Iowa

Specifications subject to change without notice.