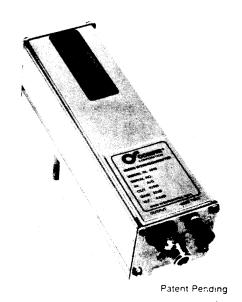
## **CONIFER®**

# SPECIFICATIONS



### **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	1.	
* Different input and/or output frequenc	ies may be ava	ilable
consult factory for details.	Ma	nufactured in Burlington, Iowa

Specifications subject to change without notice

