The 2483-40311 Translator has four individual channels, each one converts 220 to 380 MHz (300 ± 80 MHz) to 970 to 1130 MHz with low group delay and flat frequency response. Synthesized local oscillators (LO) provide frequency selection. Push button switches select the gain and other parameters. Front panel LEDs provide indication of DC power, PLL alarm and Remote operation. Gain is adjustable manually over a 0 to +20 dB range in 0.5 ± 0.5 dB steps. The gain of each channel is also remotely selectable. Parameter selection and gain settings appear on the LCD display. Connectors are BNC female for the RF IN and RF OUT and external 10 MHz reference input and output. The table below shows available options. The unit is powered by a 100-240 ±10% VAC, 47-63 Hz power supply, and is in a 1 3/4” X 19” X 16” rack mount chassis.

### EQUIPMENT SPECIFICATIONS

#### Input Characteristics
- Impedance/Return Loss: 50Ω/14 dB
- Frequency: 220 to 380 MHz (300 ± 80 MHz)
- Noise Figure, max.: 20dB (set to min input, max gain)
- Input Level range: -30 to -10 dBm

#### Output Characteristics
- Impedance/Return Loss: 50 Ω /12 dB
- Frequency: 970 to 1130 MHz
- Output Level range: -30 to -10 dBm
- Output 1 dB compression: +0 dBm, max. gain

#### Channel Characteristics
- Gain range (adjustable): 0 to +20 dB in 0.5 ± 0.5 dB steps
- Frequency Response: ±1.5 dB, 970 - 1130 MHz; ±0.5 dB, any 40 MHz increment
- Spurious Intermodulation: < -50 dBc for two carriers at 4 MHz spacing, each at -5 dBm out (set to -30 dB input, 20dB gain)
- Ch to Ch isolation: < -60 dB typ., < -50 dB min.; G=20, -30 dBm input level
- Group Delay, max: 5 ns total, 970 - 1130 MHz out
- Frequency Sense: Non-inverting

#### Synthesizer Characteristics
- Frequency Accuracy: ± 1.0 ppm max over temp (± 0.01 ppm, option H)
- Frequency Step: None, fixed tuned

#### Front and Rear Panels (2483-40311 Four Channel with Options R, W28 shown)

### Available Options
- H - High Stability (±0.01ppm) Int Ref
- R - Redundant Power Supply
- W8 - Ethernet; w/TCP/IP, Telnet
- W18 - Ethernet; w/WB & SNMP
- W28 - Ethernet; w/TCP/IP, Telnet

### Connectors/Impedance
- STD - 50Ω BNC (RF OUT), 50Ω BNC (RF IN)
- Bx - 75Ω BNC (RF OUT), 75Ω BNC (RF IN)
- Cx - 500 BNC (RF OUT), 500 BNC (RF IN)
- Kx - 75Ω BNC (RF OUT), 50Ω BNC (RF IN)

### Contact Cross for other options

10°C to 40°C; Specifications subject to change without notice