2016-05 Downconverter, 950 - 1525 MHz, 140 MHz IF

The 2016-05 Downconverter converts 950 to 1525 MHz to 140 MHz in 1 MHz steps with low group delay and flat frequency response. Synthesized local oscillators (LO) provide frequency selection. Multi-function push button switches select the input frequency, gain, and other parameters. Front panel LEDs provide indication of DC power, PLL alarm or Remote operation. Gain is adjustable manually (MGC) over a 0 to 50 dB range. The frequency and gain are remotely selectable. Parameter selection and frequency and gain settings appear on the LCD display. Connectors are Type F female for the RF, and BNC female for the IF and optional external 10 MHz reference input and output (option E). Other connector options are available. LNB +24 VDC (option L) and 10 MHz reference (option E) can be inserted on the RF lines. The 2016-05 is powered by a 100-240 ± 10% VAC power supply, and is contained in a 1 3/4” X 19 “X 16” rack mount chassis.

Front Panel

Block Diagram

Available Options
E - External 10 MHz ref input & output
L - LNB Voltage, +24VDC, 0.4 amps
H - High Stability (±0.01) Internal Ref
Q - RS485 Remote Interface
T - Temperature Sensor

Connectors/Impedance
B - 50Ω BNC (RF), 75Ω BNC (IF)
C - 50Ω BNC (RF), 50Ω BNC (IF)
D - 50Ω BNC (RF), 50Ω BNC (IF)
N - 50Ω N-type (RF), 75Ω BNC (IF)
M - 50Ω N-type (RF), 50Ω BNC (IF)

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