



Dual Band Block Downconverters

MODEL	Input Frequency (GHz)	Input Connector	Output Frequency (MHz)	Output Connector
DC-1720-0735	Low Band: 17.70 – 19.20 High Band: 19.20 – 20.70	WR-42 (Grooved)	950 – 2450	SMA Female
DC-2124-0735	Low Band: 20.70 – 22.20 High Band: 22.20 – 23.70	WR-34 (Grooved)		
DC-2427-0735	Low Band: 23.70 – 25.20 High Band: 25.20 – 26.70	WR-34 (Grooved)		
DC-3740-0735	Low Band: 36.75 – 38.25 High Band: 38.25 – 39.65	WR-28 (Grooved)	Low: 950 – 2450 High: 950 – 2350	

Other frequency bands available. Contact ITS for details.

Output Power @ 1dB GCP:	+7 dBm Minimum, + 10 dBm Typical
Small Signal Gain:	35 dB Minimum
Small Signal Gain Control, Toggle Switch:	10 dB Typical Range
Gain Flatness:	0.5 dB Maximum over any 50 MHz
Output Level Control:	-10 dB Manual Switch
Noise Figure:	4.0 dB Maximum
Output Harmonics @ Pout = 0 dBm:	-40 dBc Maximum
Output Spurious @ Pout = 0 dBm:	-60 dBc Maximum
LO Leakage:	-60 dBm Maximum
Additive Phase Jitter Integrated over 100 Hz to 10 MHz:	0.4 ° RMS Maximum
LO Frequency Stability:	±0.5 ppm Maximum
Input VSWR:	2:1 Maximum
Output VSWR:	2:1 Maximum
DC Input, Solderable Pin:	+15 V _{DC} @ 1 A Maximum
Band Selection, Solderable Pin:	+15 V for low band, 0 V for high band



Operating Temperature:	-30 °C to +50 °C (Option 1) -40 °C to +60 °C (Option 2)
Enclosure Rating:	IP-65
Dimensions:	5.5" × 6" × 1.9", without mounting tabs 5.5" × 7.1" × 1.9", with mounting tabs

*Specifications are Subject to Change without Notice
Errors & Omissions Excepted*