



10 W Ext. Ku-Band Block Up Converter

TECHNICAL SPECIFICATIONS		
RF frequency	L.O. 13.05 GHz L.O. 12.80 GHz	14.00 to 14.50 GHz 13.75 to 14.50 GHz
Local oscillator- switchable		13.05 GHz and 12.80 GHz
IF frequency		950 to 1,700 MHz
Output power @ P1dB min over temp.		10W (+40 dBm min)
IF connector		N-type or F-type (field-exchangeable)
Power supply - auto-ranging		+18~+75 VDC via IF cable, 62 W max
Internal 10MHz high stability reference		10 ⁻⁸
Output interface		WR-75 G
Gain		65 dB min., 68 dB nominal
IMD3		-29 dBc max
L.O. leakage		-33 dBm max
Spurious		-50 dBc max
Gain variation	over 40 MHz over 500 MHz	1.1 dB p_p 1.4 dB p_p
Over operating temperature		1.2 dB p_p @ fixed frequency
Requirement for external reference		via IF cable
frequency		10 MHz (sine-wave)
input power		-5 to +5 dBm @ input port
Phase noise		-55 dBc/Hz max. @ 10 Hz -65 dBc/Hz max. @ 100 Hz -75 dBc/Hz max. @ 1 KHz -85 dBc/Hz max. @ 10 KHz -95 dBc/Hz max. @ 100 KHz -120 dBc/Hz max @ 1 MHz
Noise figure		20 dB max
Input V.S.W.R.		2 : 1 max
Output V.S.W.R.		2 : 1 max.
Mute		Shut off the BUC in case of L.O. unlocked
Input interface	ABE10KFX ABE10KFXF	50 Ohm (N-type IF in) 75 Ohm (F-type IF in)
Status LED	RED GREEN YELLOW YELLOW blinking	Summary alarm All OK Standard L.O. 13.05 GHz Extended L.O. 12.80 GHz
Temperature range (ambient)	operating storage	-40 deg C to +55 deg C -40 deg C to +75 deg C
Dimensions & housing		120 (L) x 120 (W) x 77 (H) mm 4.8" (L) x 4.8" (W) x 3.28" (H)
Weight		1.4 kg (3.0 lbs) max