

16 W BUC Ku band

Output Frequency Range	13.75 to 14.50 GHz
Input Frequency Range	950 to 1700 MHz
Local Oscillator	12.8/13.05 GHz (switch-able)
M&C	optional
Phase Noise	< -60 dBc/Hz at 100 Hz < -70 dBc/Hz at 1 kHz < -80 dBc/Hz at 10 kHz < -90 dBc/Hz > 100 kHz
Input level range without damage	+ 5dBm max
Output Power @ P1dB	42 dBm
Gain Flatness (40 MHz BW)	± 0.6 dB max
Gain Variation Over Temperature	± 2 dB max (digital compensation)
Linear gain	65 dB nominal
Spurious @ P1dB	-55dBc max
IMD	-30dBc
(With 2 carriers @ 6dB backoff 1dB Comp)	
Input Return Loss	> -15 dB
IF Input Interface	50 ohm N-type 75 ohm – F type field replaceable
RF Output Interface	WR75
External Reference	10 MHz sine wave
Ref Phase Noise minimum requirement @	10 Hz -120dBc/Hz @ 10KHz -150dBc/Hz
Ref Stability	± 1x 10E-7 (Minimum requirement)
Ref Input Level	-5 to +5 dBm
DC Voltage (IFL)	36-70V (48VDC nominal)
Power consumption	120W
Operating Temperature	-30 °C to 50 °C
Relative Humidity	up to 98%
Dimensions:	120x120(160)x110mm
Weight:	2.0kg



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LED Alarms (to LEDs installed)

LED1 indicator YELLOW	LO mode 13050
LED1 indicator YELLOW Blinking	LO mode 12800
LED2 indicator GREEN	ALL OK
LED2 indicator GREEN Blinking	Output Muted
LED3 indicator RED	SUMMARY FAULT, No PLL Lock to ext. REF 10MHz, SSPA OUT DISABLED
No LED illumination	No power supply voltage

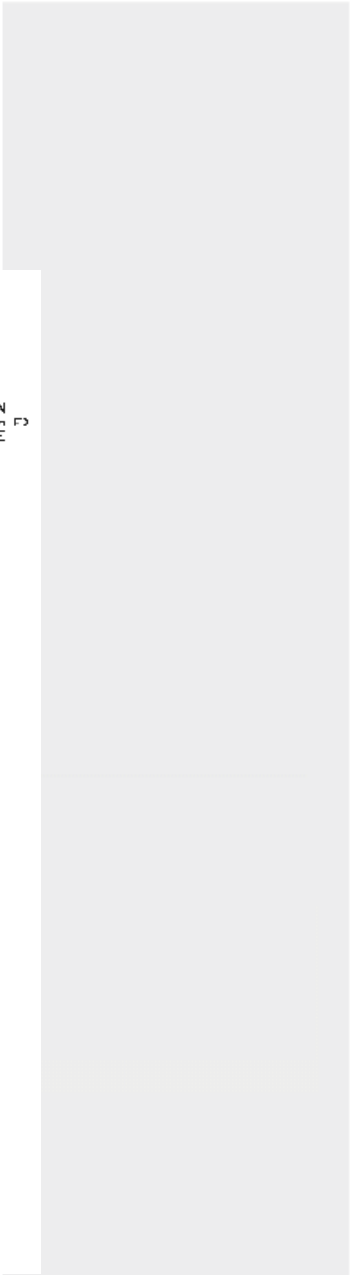
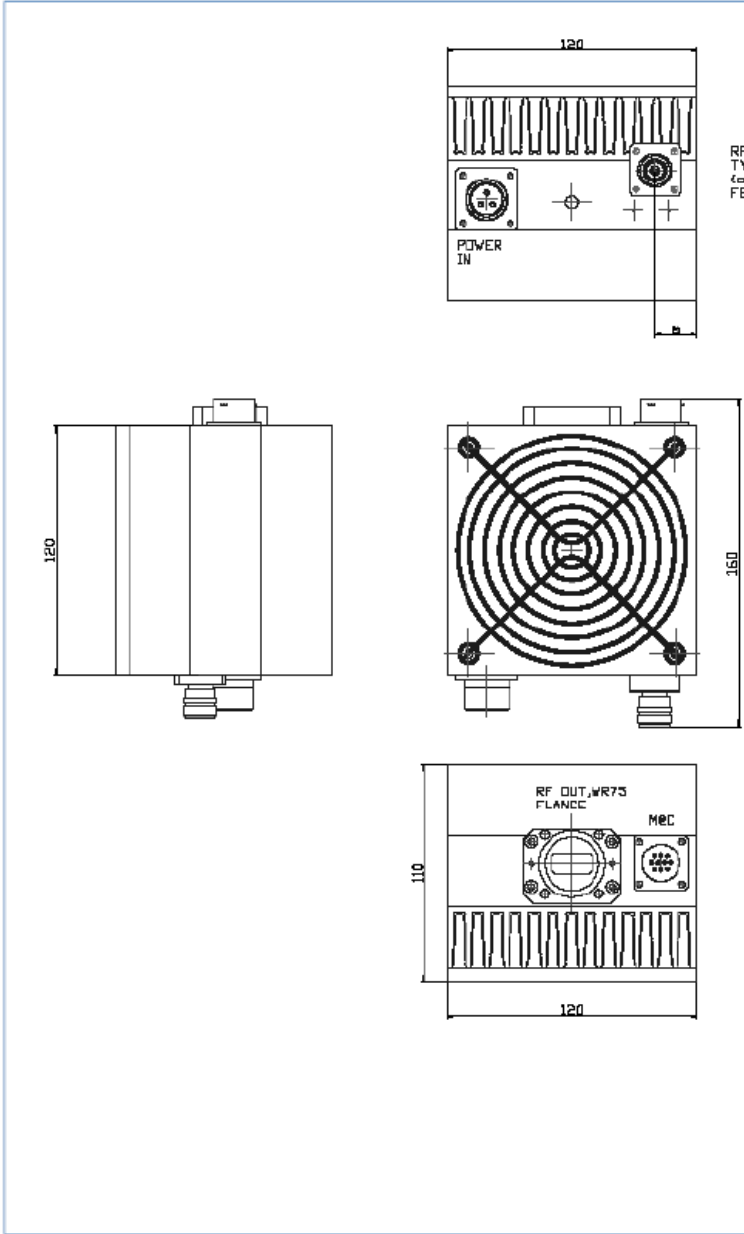
Connector Pin Assignment

Connector Name	Type	Pin #	Signal	Parameter
J1 "IF IN"	N/F-type female field replace-able	N/A	IF Input 10 MHz Ref. IN DC power	5 dBm, max -5 + 5 dBm 48V (36-72V)
J2 "RF OUT"	WR-75	N/A	RF Output	42 dBm
J3 "EXT AC POWER IN" <i>optional</i>	3 pin	A, C	Line A (AC)	Optional
		B	Ground	
J4 "M&C Interface" <i>optional</i>	PT02E12-10P-027 10 pin male	A	Rx+ In	RS-485
		B	Rx- In	
		C	Tx+ Out	
		D	Tx- Out	
		E	Detector	0 - 1000 mV (opt)
		F	Alarm Out	Low when alarm
		G	GND	
		H	Mute In	Muted when Low
J	Rx In	RS-232		
K	Tx Out			

BUC – BLOCK UP CONVERTER



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ISO 9001:2015

BUC
16KU001A