

16 W BUC KU BAND

Model Type: 16KU001A

SPECIFICATION

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
Linear gain	65 dB nominal
Spurious @ P1dB	-55dBc max
IMD (With 2 carriers @ 6dB backoff 1dB Comp)	-30dBc
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



## SPECIFICATION

Relative Humidity	up to 98%
Dimensions	120x120(160)x110mm
Weight	2.0kg

## LED ALARM (to LEDs installed)

LED 1 indicator		LO mode 13050
LED 1 indicator		LO mode 12800
LED 2 indicator		ALL OK
LED 2 indicator		Output Muted
LED 3 indicator		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 10MHz 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" <b>optional</b>	3 pin	A, C	Line A (AC)	Optional
		B	Ground	
J4 "M&C Interface" <b>optional</b>	PT02E12-10P-027 10 pin male	A	Rx+ In	RS-485
		B	Rx- In	
		C	Tx+ Out	
		D	Tx- Out	
		E	Detector	RS-485
		F	Alarm Out	0-1000 mV (opt)
		G	GND	
		H	Mute In	Muted when Low
		J	Rx In	RS-232
K	Tx Out			

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