

RADITEK

SATCOM

BUC-Ka Dual Band

Block Up Converter

Ka-Dual Band (29-30, 30-31 GHz)

N female, WR28

70dB Gain, 20 Watts

Features:

- Dual Band Switching via GUI Interface



Order Examples: RBUC-L-Ka-D-Nf-WR28-70d-ER10M-20W-S-m20

Description: (Block Up Converter Dual Band, L(1000-2000MHz) to Ka (29-30-30-31GHz), N-Type Female Connector, WR28, 70dB Gain, 10MHz External Reference, 20 Watts power, DC via MS connector, gain adjustable, M&C)

Additional Options:

S-Standard (see MC Option table on page 2)

Specifications			Units
Input Band Frequency	1000-2000	1000-2000	MHz
Out Frequency	29-30	30-31	GHz
LO Frequency	28.0	29.0	GHz
Frequency sense	No Inversion		
Saturate output power	+43		dBm (nominal)
Maximum linear output power	+40 @25°C with derating at high temperature		dBm min
Input return loss	12		dB min
Output return loss	12		dB min
Phase noise(SSB)	-60 @100Hz -73 @1KHz -83 @10KHz -93 @100KHz		dBc/Hz max
External reference signal frequency	10		MHz
External reference level	-5 to +5		dBm
External reference phase noise	-145 @1KHz		dBc/Hz max
Spectral regrowth	25 @linear power		dBc min
Group delay variation	±5.0 nanoseconds over any 45MHz		
Spurious (In/Out-band)	-50 @ Linear power		dBc max
Gain	70		dB max
Gain control	Δ15dB, 1dB step		
Gain stability over temp	±2.5dB at any const. frequency		
Gain flatness	±1.0dB in any 45MHz ±2.5dB over full band		
Power requirement	+36 to +72 supplied through IFL or MS connector		VDC
Power consumption	250		Watt max
Input Interface	N-female		
Output Interface	WR28 waveguide		
Dimension	280.(L) x 160(W) x 110(H) mm		mm
Weight	5.5		kg
Operating temperature	-40 to 55		°C
Humidity	0-95%		

RBUC-L-Ka-D-Nf-WR28-70d-ER10M-20W-m20

Specifications may be subject to change

11/28/17

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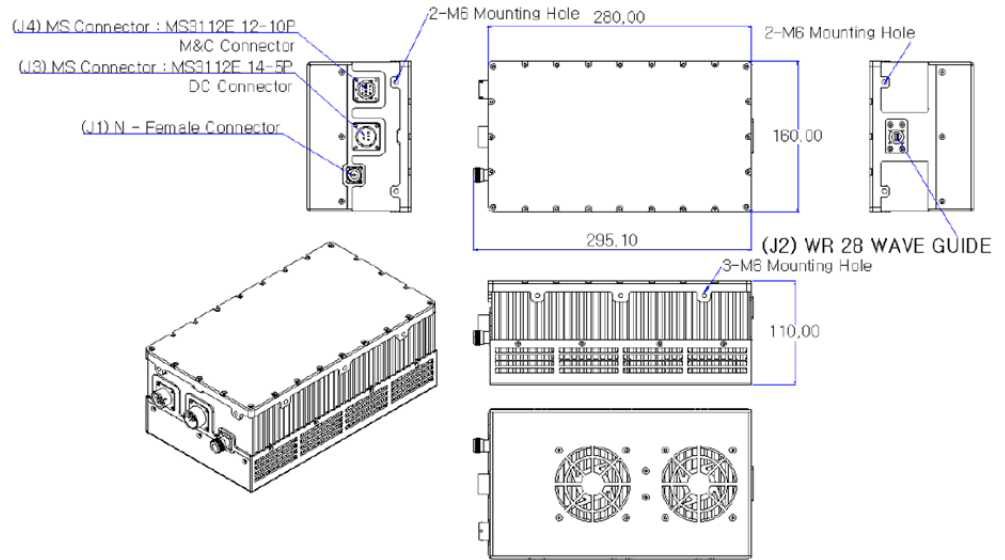
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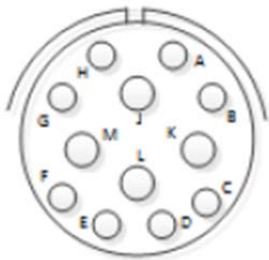
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Block Up Converter Ka-Dual Band (29-30, 30-31GHz N female, WR28, 70dB Gain, 20 Watts

Specifications		
DC connector	MS3112E14-5P	
M&C interface	MS3112E12-10P	
M&C Function	- Output power - Temperature - LO status - Output power mute - Gain control	- EXT mute - Fan status - Firmware upgradable - Band switching



J3



Connector	Parameter	Description
J1	IF input connector	N-female, panel-mounted
	Impedance	50 ohm
	10MHz reference input	
J2	RF output connector	WR28 waveguide flange
J3	DC	Panel-mount (MS3112E14-5P)
	A	N.C.(Not connected)
	B, C	+48V (DC Power +)
	D, E	GND (DC Power -)
J4	M&C(Ethernet or RS232)	Panel-mount (MS3112E12-10P)
	J4-A	RS-232 Tx
	J4-B	RS-232 Rx
	J4-C	Ethernet Rx-
	J4-D	
	J4-E	EXT Mute GND
	J4-F	EXT Mute @High
	J4-G	Ethernet Tx+
	J4-H	RS-232 GND
	J4-J	Ethernet Rx+
	J4-K	Ethernet Tx+

MC Option

S	DC via MS connector, gain adjustable, M&C (Standard)
W	DC via MS connector, gain adjustable, M&C (Web browser)
SNMP	DC via MS connector, gain adjustable, M&C (SNMP available)