

SPECIFICATIONS

FREQUENCY RANGE

	Input (MHz)	Output (GHz)	LO (GHz)
Standard	950 to 1450	14.00 to 14.50	13.05
Extended	950 to 1450	13.75 to 14.25	12.8

TRANSMIT

Power	Output P1 dB (dBm) min	Gain (dB) typ @ 25°C	Power Consumption (Typ)
16 W	42	70	170 W
20 W	43	70	250 W
25 W	44	70	300 W
30 W	45	70	350 W
40 W	46	80	600 W
80 W	49	80	650 W
100 W	50	80	1200 W

INTERFACES

Gain Flatness for Full BW	±2.75 dB max
Gain Stability Over Temperature	±2.5 dB max
Spurious @P1 dB Output	-50 dBc max
Output Phase Noise @ 1kHz offset	-70 dBc/Hz
@ 10kHz offset	-80 dBc/Hz
@ 100kHz offset	-90 dBc/Hz
Intermodulation Product (with 2 CXR @1dB total back off)	-27dBc max
Input VSWR	2.0:1 max
IF Input Interface	50Ω N-Type Female 75Ω F-Type Female
Output Interface	WR-75 Grooved 50Ω N-Type Female

ENVIRONMENTAL

Operating Temperature	-40°C to +55°C
Relative Humidity	up to 100%

EXTERNAL REFERENCE

Frequency	10 MHz
Phase Noise @ 100Hz offset	-135 dBc/Hz
@ 1kHz offset	-140 dBc/Hz
@ 10kHz offset	-143 dBc/Hz
Power Level	-10 dBm to +5 dBm

MONITOR AND CONTROL (OPTIONAL)

Interface	MS3102R20-29S
SSPA Output Power Detect	Yes
SSPA On/Off Control	Yes

POWER SUPPLY

AC Input Voltage for Booster	220 Vac or 110 Vac +48 Vdc (Optional) (36V – 72V)
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MECHANICAL

Dimensions	16 W	20 W	25 W	30 W	40 W	80 W	100 W
276.66L x 243.38W x 134.62H mm	(16 W)						
276.66L x 243.38W x 221H mm		(20 W)					
276.66L x 243.38W x 221H mm			(25 W)				
276.66L x 243.38W x 221H mm				(30 W)			
322.58L x 271.78W x 271.78H mm					(40 W)		
322.58L x 271.78W x 271.78H mm						(80 W)	
419L x 391W x 233.68H mm							(100 W)
Weight	7 kg (16W)	14 kg (40W)	10 kg (20W)	14 kg (80W)	10 kg (25W)	37 kg (100W)	10 kg (30W)

Note: Specifications are subject to change without notice. Other power levels available; consult factory.

PART NUMBER GUIDE

Example To order Ku-Band High Power BUC USBB48N01:

USBB48N01

Type	Freq Band	Power Level	Connector	Operating Voltage Range	Voltage Input Port
B – BUC	A – Ka	30 – 1W	F – F Type	0 – +38 to +60V (+48V DC)	0 – Same as IF Signal
L – LNB	B – Ku	45 – 30W	N – N Type	1 – +30V DC	1 – MS Connector
	C – C	46 – 40W		2 – +24V DC (18 to 28V)	2 – TNC Connector
	D – Ext Ku	47 – 50W		3 – +12V DC	
	E – Ext C	48 – 60W		4 – AC	
		37 – 5W			
		49 – 80W			
		39 – 8W			
		50 – 100W			
		40 – 10W			
		51 – 125W			
		42 – 16W			
		52 – 150W			
		43 – 20W			
		53 – 200W			
		44 – 25W			
		54 – 250W			



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