4W/6W Ku-Band BUC

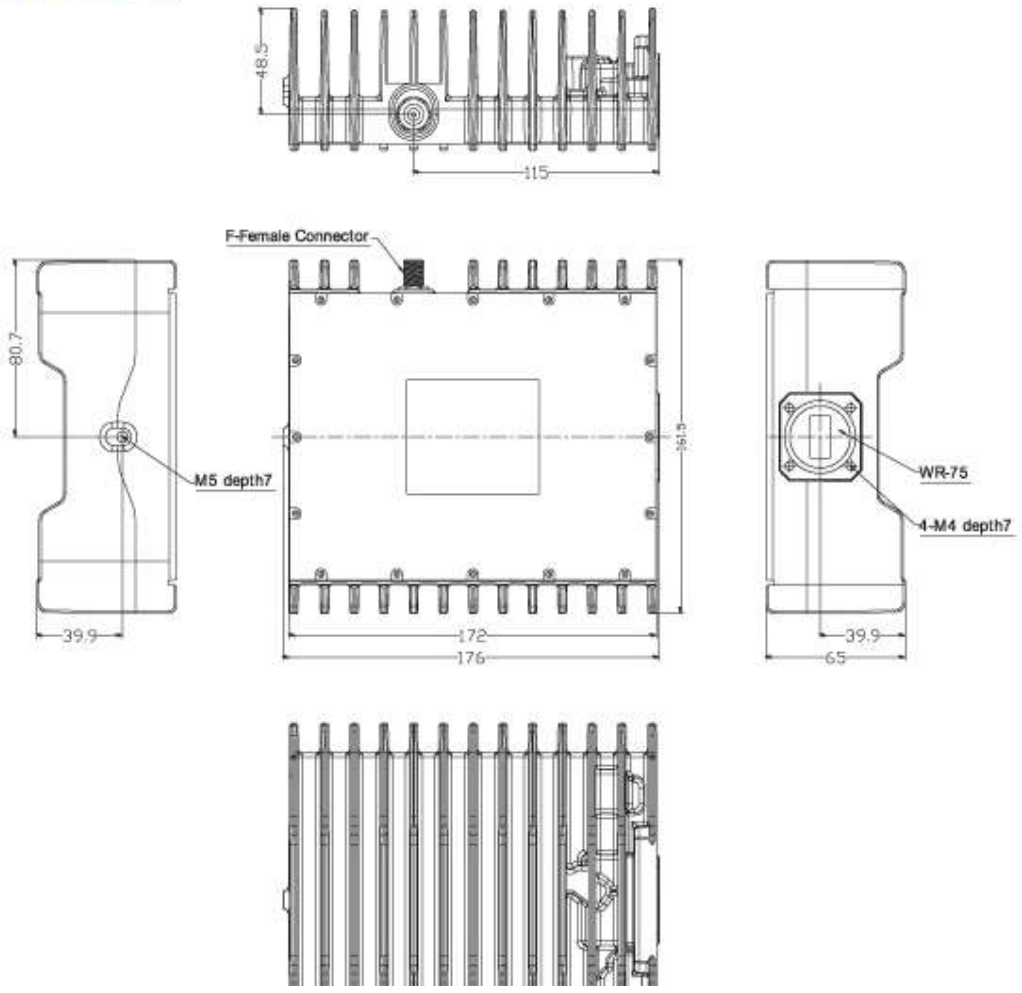
VSAT™ Series are ideal for Broadband VSAT RF terminal.

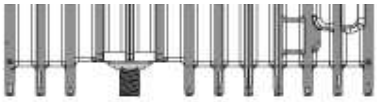
- 4W-36dBm, 6W-37.8dBm output power
- Optional Internal Reference source
- RoHS Compliant
- Small Size & Mass
- Power Consumption; 4W-35W, 6W-48W Max.
- Two years Warranty

Ku-band 4W / 6W BUC Model

Model Number	Description	Output Power	RF Band(GHz)	IF Band(MHz)
TB36APF(N)E-01	4W Std. Ku BUC	+36dBm	14.00-14.50	950-1450
TB38APF(N)E-01	6W Std. Ku BUC	+37.8dBm		
TB36BPF(N)E-01	4W Low Ku BUC	+36dBm	13.75-14.25	950-1450
TB38BPF(N)E-01	6W Low Ku BUC	+37.8dBm		
TB36CPF(N)E-01	4W Ext. Ku BUC	+36dBm	13.75-14.50	950-1700
TB38CPF(N)E-01	6W Ext. Ku BUC	+37.8dBm		

Mechanical Drawing





Specifications – 4W Ku-band BUC

Parameters		Specifications
Input Characteristics		
Frequency Range		A : 950 ~ 1450 MHz B : 950 ~ 1450 MHz C : 950 ~ 1700 MHz
Impedance		75 Ohm , 50 Ohm
VSWR		2 : 1
Interface		F-Type or N-Type
Output Characteristics		
Frequency Range		A : 14.00 ~ 14.50 GHz (LO Freq = 13.05GHz) B : 13.75 ~ 14.25 GHz (LO Freq = 12.80GHz) C : 13.75 ~ 14.50 GHz (LO Freq = 12.80GHz)
1dBCompressionPoint.	Min.	36dBm
VSWR		2 : 1
Interface		WR75G
Transfer Characteristics		
Frequency Sense		Non-inverted
Linear Gain	Typical	58 dB
Gain Variation	Over 54 MHz	1.5 dB
	Over the whole Bandwidth	4 dB
	Over Operation Temperature	4 dB
Spurious	In band	-60dBc
	Out of band	-50dBc
Phase Noise	100Hz	-60dBc/Hz
	1KHz	-70dBc/Hz
	10KHz	-80dBc/Hz
	100KHz	-90dBc/Hz
Miscellaneous		
External Reference	Input Frequency	10MHz
	Input Power	-5 to +5dbm@Input Port
	Phase Noise	-125dBc/Hz @ 100Hz offset -135dBc/Hz @ 1kHz offset -140dBc/Hz @ 10kHz offset
Operating Voltage DC		15 ~ 24 VDC
Power Consumption	Max.	35W
Operating Temperature		-40 to +55℃
Humidity		Up to 100%
Internal Function		Lock Detector shuts off Tx in case of LO unlocked
Dimensions / Weight		176.1 x 161.5 x 65 (mm) / 1.8 Kg

Specifications – 6W Ku-band BUC

Parameters	Specifications
Input Characteristics	

Frequency Range	A : 950 ~ 1450 MHz B : 950 ~ 1450 MHz C : 950 ~ 1700 MHz
Impedance	75 Ohm , 50 Ohm
VSWR	2 : 1
Interface	F-Type or N-Type

Output Characteristics

Frequency Range	A : 14.00 ~ 14.50 GHz (LO Freq = 13.05GHz) B : 13.75 ~ 14.25 GHz (LO Freq = 12.80GHz) C : 13.75 ~ 14.50 GHz (LO Freq = 12.80GHz)
1dBCompressionPoint.	37.8dBm
VSWR	2 : 1
Interface	WR75G

Transfer Characteristics

Frequency Sense		Non-inverted
Linear Gain	Typical	60 dB
Gain Variation	Over 54 MHz	1.5 dB
	Over the whole Bandwidth	4 dB
	Over Operation Temperature	4 dB
Spurious	In band	-60dBc
	Out of band	-50dBc
Phase Noise	100Hz	-60dBc/Hz
	1KHz	-70dBc/Hz
	10KHz	-80dBc/Hz
	100KHz	-90dBc/Hz

Miscellaneous

External Reference	Input Frequency	10MHz
	Input Power	-5 to +5dbm@Input Port
	Phase Noise	-125dBc/Hz @ 100Hz offset -135dBc/Hz @ 1kHz offset -140dBc/Hz @ 10kHz offset
Operating Voltage DC		15 ~ 24 VDC
Power Consumption	Max.	48W
Operating Temperature		-40 to +55℃
Humidity		Up to 100%
Internal Function		Lock Detector shuts off Tx in case of LO unlocked
Dimensions / Weight		176.1 x 161.5 x 65 (mm) / 1.8 Kg