

## **PAC 1400H Series Ku Band Hub Mount BUC(40W)**



### **INTRODUCTION:**

TELE Ku-band Solid State Amplifier and Power BUCs are intended for satellite uplink application. PAC1400H Series Hub mount 40W BUC is available in output power 40W. It is based on TELE's proven techniques resulting in high linearity and power efficiency, conservative thermal design contributes to the high MTBF.



### **FEATURES:**

Full range of output power 40W  
 High linearity  
 Full M&C capability via RS232/485  
 Forward and Reflected power monitoring  
 Output Sample Port  
 Infinite VSWR protection with automatic high reflected power shutdown  
 Built-in Receive Reject Filter  
 Simple installation and Easy maintenance.



### SPECIFICATION:

#### Model Frequency Power and Gain

Band	RF Band	Power			Gain	
		Model	(GHz)	W	P_sat(dBW)	P_1(dBW)
1415	14.00-14.50	40	16.5	16	57	67
1315	13.75-14.50					

#### BUC Local Oscillator Frequency :

Band	RF Band	Lo	L-band Input (MHz)	
			Model	(GHz)
1415	14.00-14.50	13.05	950	1450
1315	13.75-14.50	12.80	950	1700

Other Frequency band is available, please consult factory

#### General Specification :

<b>Gain Flatness</b>	Full Band	$\pm 1.2$	dB
	Per 40 MHz	$\pm 0.3$	
<b>Gain Stability</b>	24 hrs	$\pm 0.5$	dB
<b>Gain Adjust</b>	At 1dB step	20	dB
<b>IM<sub>3</sub></b>	At P1dB-3dB	$\leq -25$	dBc
<b>AM/PM Conversion</b>	At P1dB-3dB	1.5	°/dB
<b>Sperious</b>	At P1dB	-60	dBc
<b>Noise Figure</b>	Optional	8	dB
<b>VSWR</b>	Input	1.35(Max 1.5)	
	Ouput	1.25(Max 1.35)	
<b>Group Delay(per 40MHz)</b>	Linear	0.03	nS/MHz
	Parabolic	0.003	nS/M Hz <sup>2</sup>
	Ripple	1	nS <sub>p-p</sub>
<b>Interface</b>	RF Input	N-type/SMA Female	
	Input Sample	N-type/SMA Female	
	RF output	WR75	
	RS232/465	Circular connector (6pin/14pin)	
<b>Power Requirements</b>	AC	180-264 VAC, Option 90-132V,DC48	

Environment :

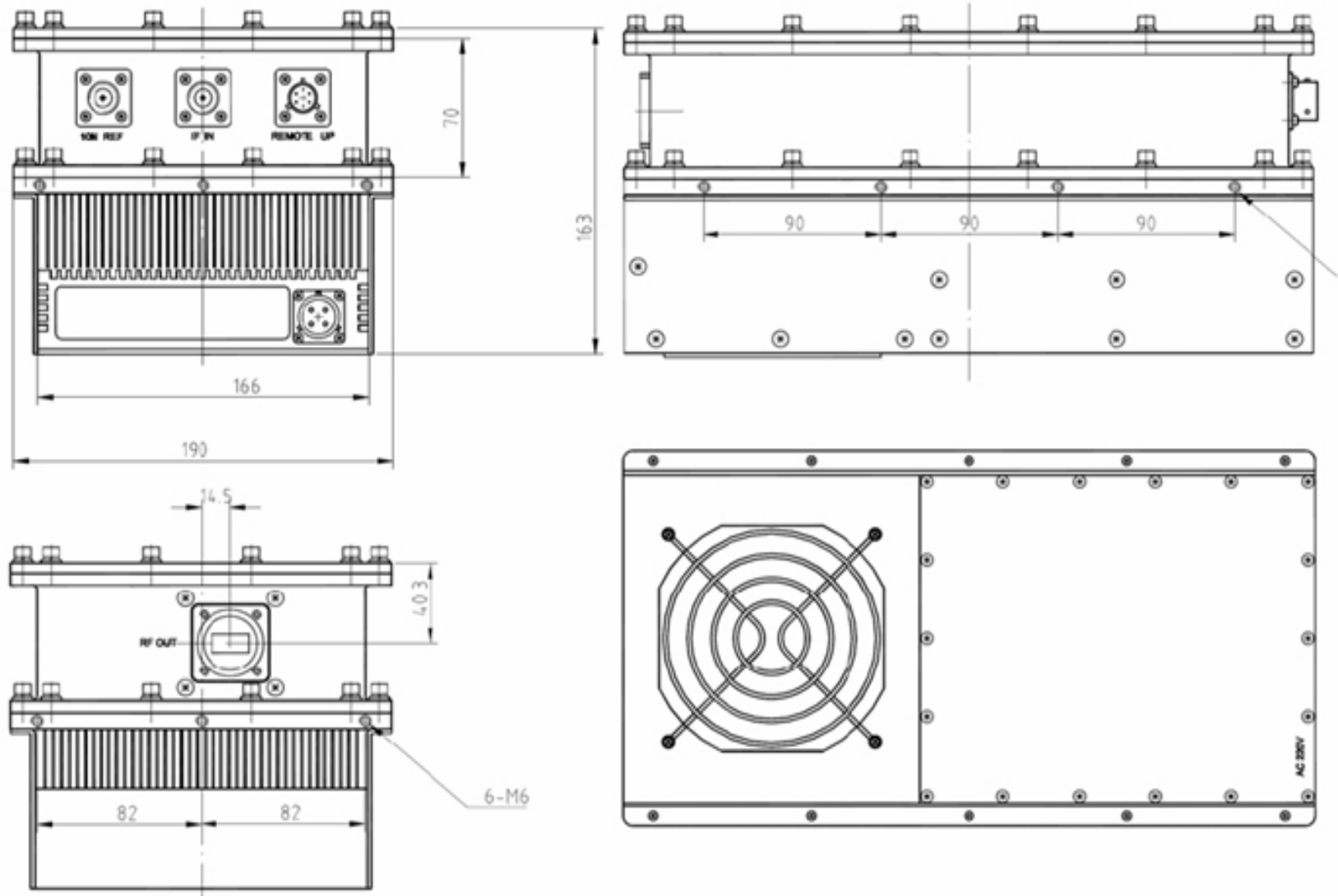
<b>Temperature</b>	Operating 0 ~ +50	°C
	Storage -55 ~ +85	°C
<b>Humidity</b>	100%	
<b>Altitude</b>	100000' AMSL derated by 2 °C/1000' from AMSL	

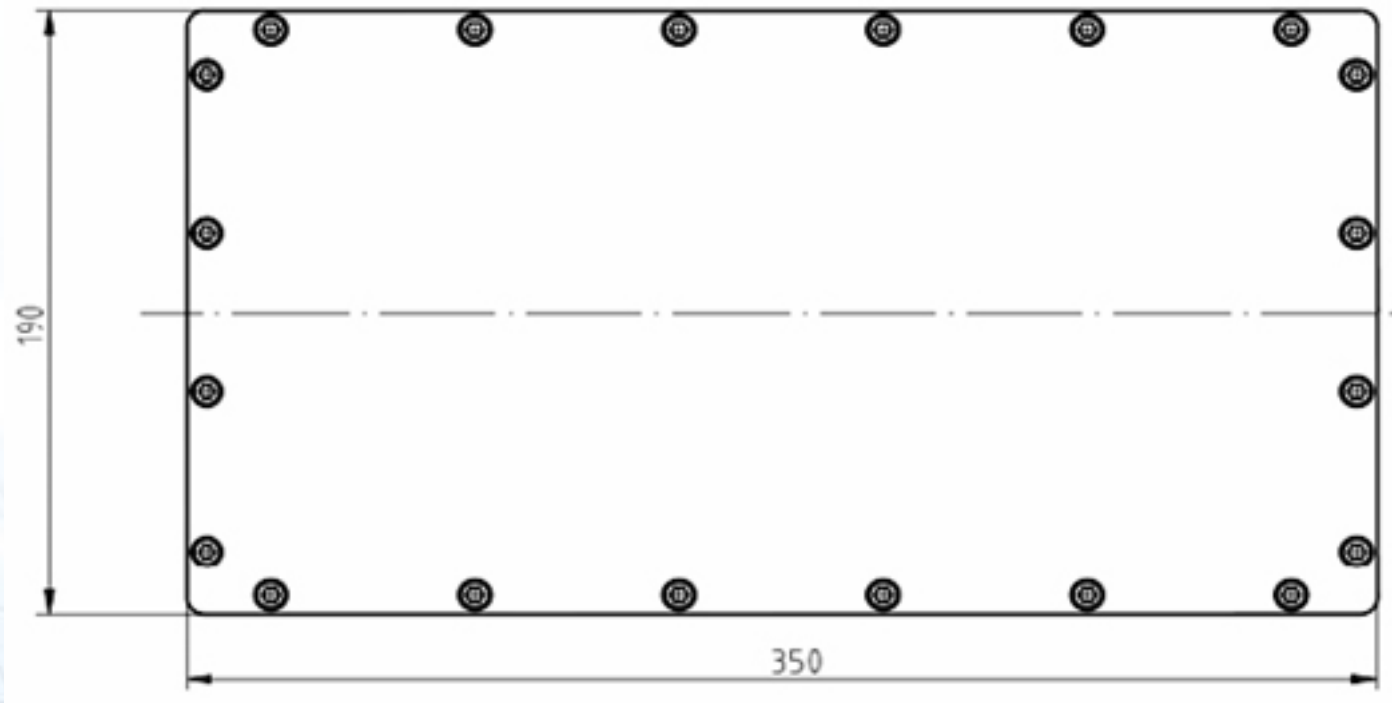
#### Local Oscillator Specification :

<b>Reference</b>	<b>10MHz</b>
<b>Phase Noise</b>	-60 dBc/Hz at 10Hz
	-65 dBc/Hz at 100Hz
	-75 dBc/Hz at 1000Hz
	-85 dBc/Hz at 10KHz
	-95dBc/Hz at 100KHz
<b>External Reference Frequency Phase Noise</b>	-115 dBc/Hz at 10Hz
	-135 dBc/Hz at 100Hz
	-148 dBc/Hz at 1000Hz
	-150 dBc/Hz at 10KHz
	-160 dBc/Hz at 100KHz

#### Outline and Dimension :

<b>Parameter</b>	<b>W x H x L</b>
<b>Dimensions</b>	<b>190*163*350</b>
<b>Weight</b>	<b>9.5 Kg</b>





Option :

L-band Interface for BUC function

1:1 redundant system

1:2 redundant system

Ethernet Interface for monitor and control