14Ghz satellite uplink indoor transmitter
PAC 1400R Series Rack Mount Ku Band SSPA/SSPB

INTRODUCTION:

TELE Ku-band Amplifier and BUCs are intended for satellite uplink application. PAC Series 19" Rackmount SSPA/SSPB is available in output power from 40W to 120W. 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 from 40W to 120W

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High linearity
Full M&C capability via RS485
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)	SSPA	+BUC module
1415	14.00-14.50	40	16	15	+56	+66
1315	13.75-14.50	50	17	16	+57	+67
		60	18	17	+58	+68
		80	19	18	+59	+69
		100	20	19	+60	+70
		120	21	20	+61	+71

BUC Local Oscillator Frequency :

Model	RF Band	Lo	L-band Input (MHz)	
	(GHz)	(GHz)	Start	End
1415	14.00-14.50	13.05	950	1450
1315	13.75-14.55	12.80	950	1700

Other Frequency band is available, please consult factory

General Specification :

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Gain Flatness	Full Band	±1.2	dB
	Per 40 MHz	±0.3	
Gain Stablity	24 hrs	±0.5	dB
Gain Adjust	At 1dB step	20	dB
IM_3	At P1dB-3dB	≦-25	dBc
AM/PM Conversion	At P1dB-3dB	1.5	°/dB
Sperious	At P1dB	-60	dBc
Noise Figure	Optional	8	dB
VSWR	Input	1.35(Max 1.5)	
	Ouput	1.25(Max 1.35)	
Group Delay(per 40MHz)	Linear	0.03	nS/MHz
	Parabolic	0.003	nS/M Hz^2
	Ripple	1	nS_{p-p}
Interface	RF Input	N-type /SMA Female	
	Input Sample	N-type Female	
	Output Sample	N-type Female	
	RF output	WR75	
	AC Line	IEC 320 Inlet	
	RS232/465	D-Sub 9 (S)	
	Ethernet (Option)	RJ45	
Power Requirements	AC	180-264 VAC, Option 90-132V,DC48	

Environment :

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Temperature	Operating 0 ~ +50	℃
	Storage -55 ~ +85	℃
Humidity	5% ~ 95% Non-condensing	
Altitude	100000' AMSL derated by 2 ℃/1000' from AMSL	

Local Oscillator Specification :

Reference	10MHz (Internal Reference)
Phase Noise	-60 dBc/Hz at 10Hz
	-65 dBc/Hz at 100Hz
	-75 dBc/Hz at 1000Hz
	-85 dBc/Hz at 10KHz
	-95dBc/Hz at 100KHz
Extemal Reference Frequency Phase Noise	-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 :

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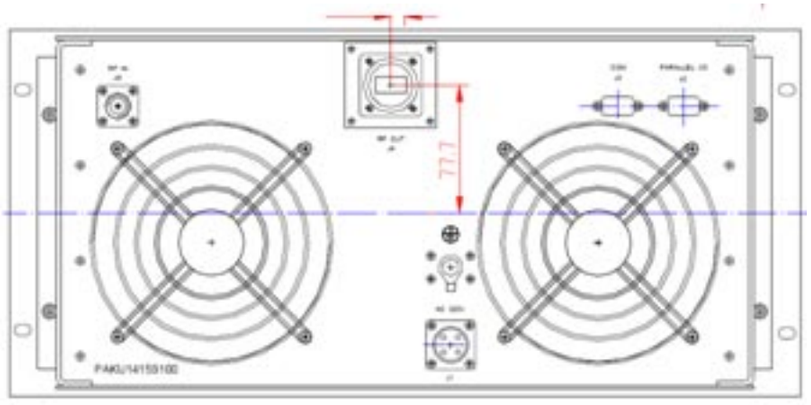
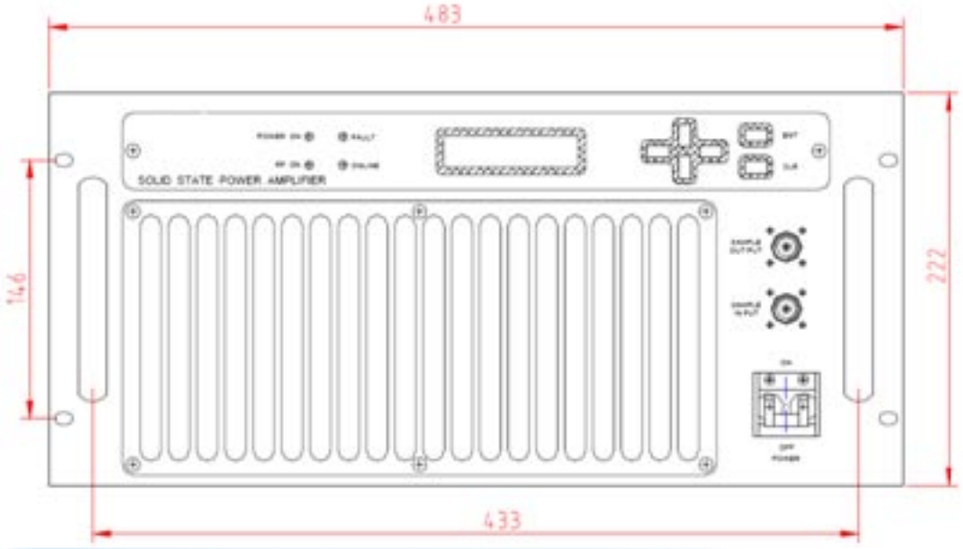
Power	Chassis	W x H x L
40	3U	483*133*533
50		
80		
100	4U	483*177*163
125		
150		
200	5U	483*222*700
250		





The picture following is Chassis of 5U

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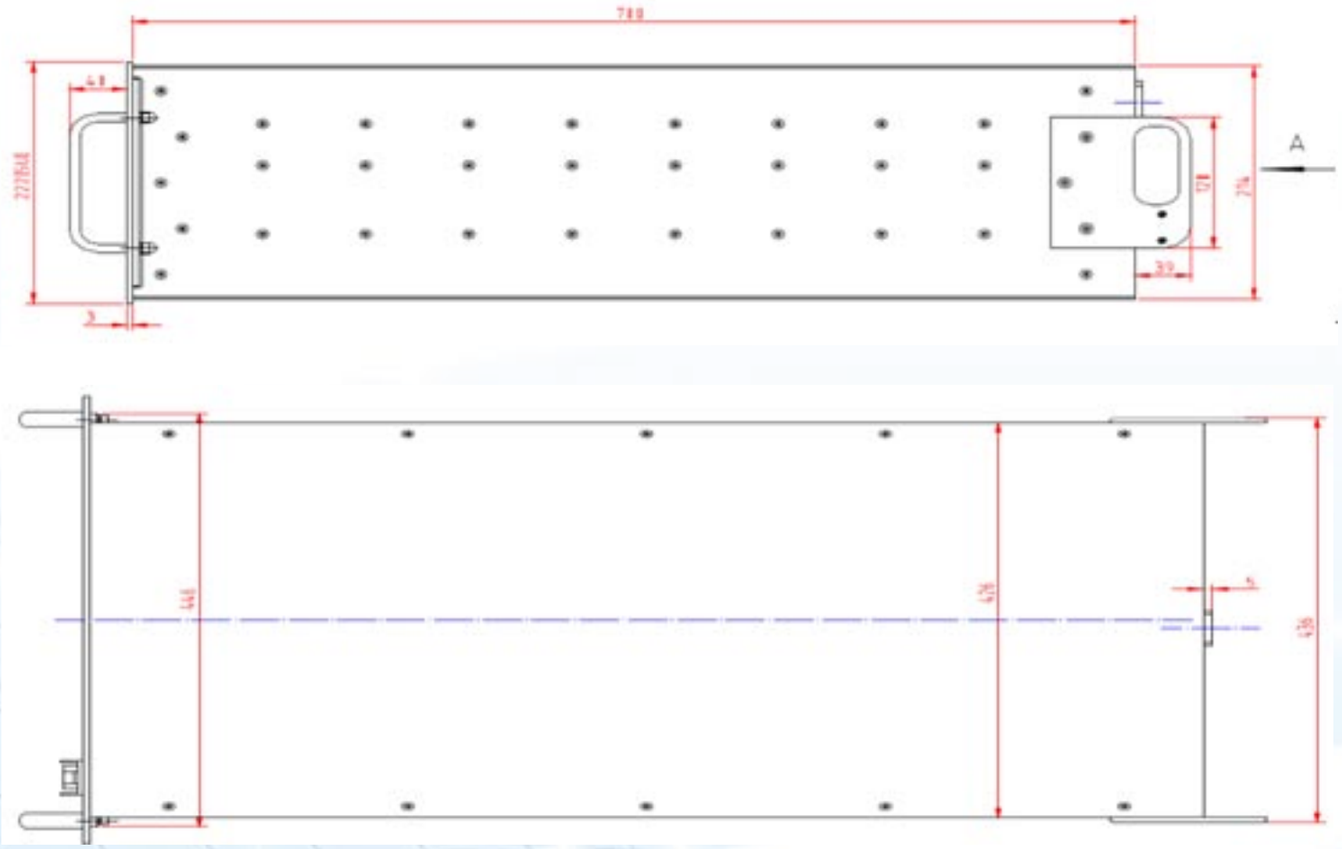

Option :

L-band Interface for BUC function

1:1 redundant system

1:2 redundant system

Ethernet Interface for monitor and control

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