

STSR 10C Series

Rack Mount SSPA



The SpacePath Communications Indoor rack-mount C-Band SSPA Series are revolutionary in size, weight and power efficiency. This series offers superior performance only 2RU size! The Indoor 19" rack-mount series gives Satcom operators more options, and is easily installed in a 19" standard rack.

Options

- Output RF Sample Port
- Output power measurements True RMS detector

Features

- Up to 10W PSAT Output Power in 19" Rackmount 2RU only!
- Only 130W Power consumption at 10W output

- Superior RF performance:
 - High Linearity
 - Spurious below -60dBc
 - Wide dynamic range of Gain Control
- Built in WG Circulator provides full output VSWR Protection
- Configuration packet protocol RS-485 User friendly HTTP based GUI and SNMP
- Built in Auto-Ranging AC power supply
- Field Replaceable power supply

10W C-Band SSPA Specification

Parameter		
RF Performance		
RF Frequency Range		5.85-6.425GHz (other frequency options available)
Input Frequency Range		5.85-6.425GHz (other frequency options available)
Gain		67dB min, 70dB typ
Group Delay		Linear: ±0.03ns/MHz Parabolic: ±0.003ns/MHz³ max Ripple: 1.0ns peak to peak max
Gain Flatness		+/-1dB typ +/-1.5dB max over full band; +/-0.4dB max over any 40MHz
Gain Stability		+/-1.5dB over full temperature range; 🛛 ±0.25dB, 24 hours at constant temperature
Output Powerat P1dB		40dBm min (10W min)
Output Powerat Psat		41dBm typ (12W typ)
Linear Output Power Plin		37dBm min (5W min)
Gain Control		20dB min dynamic range with 0.1dB step
AM/PM Conversion		1deg max up to 20W
Input Return Loss		-16dB max
Output Return Loss		-18dB max (for WR137 output)
Linearity:	2 tone IMD Spectral Re-growth	-25dBc at Plin -30dBc for QPSK at 1.5xsymbol rate at Plinear+1dB
Noise Power Density:	Transmit Band Receive Band	-85dBm/Hz max -140dBm/Hz max
Output Spurious:	Non-signal related Signal related	-60dBc -55dBc
Harmonic Output		≦-55dBc (at Plin)
Power		
AC Voltage Range		90-265VAC 50-60Hz auto-ranging
Power Consumption		130W typ
Mechanical		
Size		2 RU 19" Chassis
Weight		7.5lbs
Cooling		Forced Air
Operating temperature		0°C to +60°C
Storage temperature		-40 to +85 deg. C
Interfaces and Indicators	1. I.	
RF Input Connector		Precision N-; female
RFSample Connector		Precision N-; female
RF Output Connector		CPR137 grooved
R\$485-R\$232		DB9 Connector rear panel
Ethernet-SNMP		RJ45 rear panel
Standards		
CE Status		CECertified