

IRT Rack Mount 10W C-Band SSPA

The IRT 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" Rack-mount 2RU only!
- Only 130W Power consumption at 10W output
- Superior RF performance:
- o High Linearity
- o Spurious below -60dBc
- o 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



RF Parameters				
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/MHz2 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; +/-10.25dB, 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		
AM/PM Conversion		1deg max up to 20W		
Input Return Loss		-16dB max		
Output Retum Loss		-18dB max (for WR137 output)		
Linearity:	2 tone IMD	-24dBc max at Plinear		
	Spectral Re-growth	-30dBc for QPSK at 1.5 x symbol rate at Plinear+1dB		
Noise Power Density:	Transmit Band	-85dBm/Hz max		
	Receive Band	-140dBm/Hz max		
Output Spurious:	Non-signal related	-60dBc		
	Signal related	-55dBc		
Harmonic Output		≤-55dBc (at Plin)		

Power & Mechanical		
AC Voltage Range	90-265VAC 50-60Hz auto-ranging	
Power Consumption	130W typ	
Size	2 RU 19" Chassis	
Weight	3.4kg (7.5lbs)	
Cooling	Forced Air	
Operating Temperature / Storage Temperature	0°C to +60°C / -40°C to +85°C	

Interfaces		
IF Input Connector	Precision N-; female	
RF Output Connector	CPR137 grooved	
RF Sample	Precision N-; female	
RS485-RS232	DB9 Connector rear panel	
Ethernet-SNMP	RJ45 rear panel	