

800W S-Band Hubmount SSPA Advanced Solid State Technology

Taurus Line SSPA AWMAg-800S

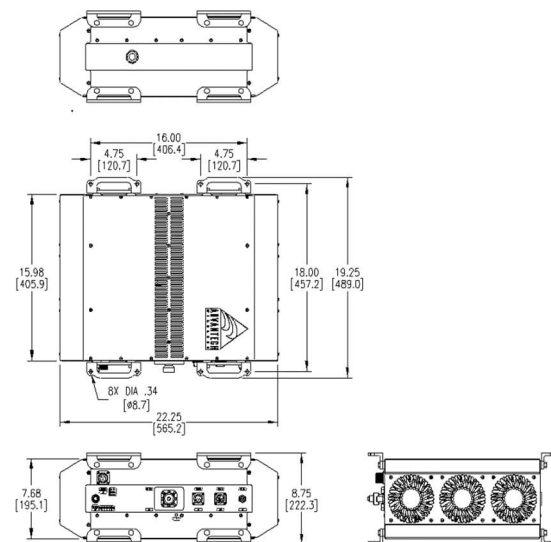
Solid State Technology for Satellite TT&C and Deep Space Communication

- Covers S band, from 2.025-2.120 GHz
- Rugged, Weatherproof Outdoor Package
- High Reliability, and Availability
- High power density in a compact, rugged, weatherproof package
- Designed for Multi Carrier Operations
- Backed by over 25 years of Outdoor SSPA design and manufacturing



Options

- 1:1 and 1:2 Redundancy Systems with different choices for the mount.



800W S-Band Hubmount SSPA Advanced Solid State Technology

Specifications	S-band	
Operating Frequency	2.025 – 2.120 GHz	
Saturated Output Power	800W	
P _{SAT} , at Flange	+59.0dBm nominal*	
P _{LINEAR}	+56.0dBm minimum	
	Spectrum Regrowth ≤ 25dBc at 1.0 Symbol Rate, QPSK, α=0.35	
Gain	SSPA	70.0dB Min
Gain adjustment range	20 dB in 0.1 dB steps	
Gain flatness over full band	2 dB p-p max	
Gain slope over 10 MHz	0.6 dB max	
Gain variation over temperature	± 1.5 dB max	
Input Impedance and VSWR	50 Ω	1.5:1
Output VSWR	1.3:1	
Noise power density	-75dBm/Hz, (-115dBm/Hz in Rx band 2.2 – 2.4GHz)	
Spurious at P _{LINEAR}	-60 dBc max	
Harmonics	-60 dBc @ P _{LINEAR}	
AM/PM conversion	<1.0°/dB P _{LINEAR}	
Third order IMD (two tones)	-25 dBc two signals 5 MHz at Plin	
Group delay	Ripple	1 nsec p-p max over any 10 MHz band
Residual Phase Noise, Continuous	-60 dBc/Hz at 10Hz -90 dBc/Hz at 100Hz -100 dBc/Hz at 1000Hz - 110 dBc/Hz at 10 kHz	-115 dBc/Hz at 100 KHz -125 dBc/Hz at 1 MHz -130 dBc/Hz at 10 MHz - 130 dBc/Hz at 100 MHz
Weight & Dimensions		
Dimensions	22.25" x 16.0" x 7.68" (565.2mm x 406.4mm x 195.1mm)	
Weight	90 lbs. (40.8kg)	
AC input voltage	190 - 265 VAC, (47-63 Hz)	
Power consumption	2500 kVA max.	
Interfaces	Input - N-type female Output Sample Port - N type female RS485/Ethernet - MS3112 type	AC line - MS3102 type RF output - DIN 7/16
Environmental	Operating Temp. -30°C to +55 °C Storage -55°C to +85 °C Humidity 100% condensing Altitude 10,000' AMSL, derated by 2 °C/1000' from AMSL	Option 1 -40°C to +55 °C

*P_{sat} will be limited to +57.0 dBm

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