

## 700W L/S-Band Hubmount SSPA Advanced Solid State Technology

### Taurus Line SSPA AWMag-700L/S

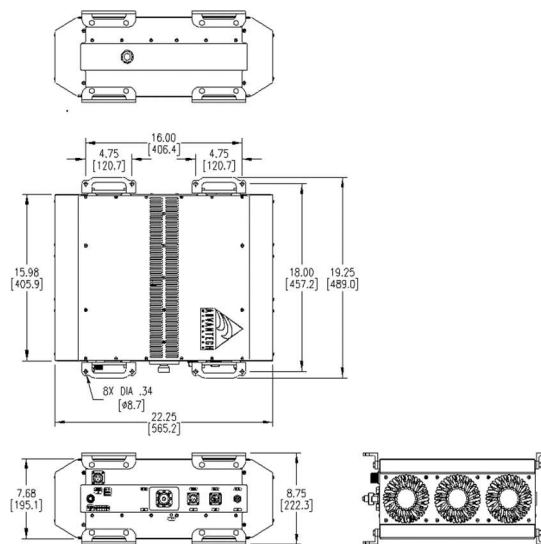
#### Solid State Technology for Satellite TT&C and Deep Space Communication

- Can cover both L and S bands, from 1.760 -2.160 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.



## 700W L/S-Band Hubmount SSPA

### Advanced Solid State Technology

Specifications		L/S-band	
Operating Frequency		1.760 – 2.160 GHz	
Saturated Output Power		700W	
P <sub>SAT</sub> , at Flange		+58.5dBm nominal *	
P <sub>LINEAR</sub>		+55.5dBm 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		3 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	
Spurious at P <sub>LINEAR</sub>		-60 dBc max	
Harmonics		-60 dBc @ P <sub>LINEAR</sub>	
AM/PM conversion		<1.0°/dB P <sub>LINEAR</sub>	
Third order IMD (two tones)		-25 dBc two signals 5 MHz at P <sub>lin</sub>	
Group delay		Ripple      1 nsec p-p max over any 10 MHz band	
Residual Phase Noise, Continuous		-60 dBc/Hz at 10Hz	-115 dBc/Hz at 100 KHz
		-90 dBc/Hz at 100Hz	-125 dBc/Hz at 1 MHz
		-100 dBc/Hz at 1000Hz	-130 dBc/Hz at 10 MHz
		-110 dBc/Hz at 10 kHz	-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	AC line - MS3102 type
	Output Sample Port -	N type female	RF output - DIN 7/16
Environmental	RS485/Ethernet -	MS3112 type	
	Operating Temp.	-30°C to +55 °C	Option 1 -40°C to +55 °C
	Storage	-55°C to +85 °C	
	Humidity	100% condensing	
	Altitude	10,000' AMSL, derated by 2 °C/1000' from AMSL	

\*Psat will be limited to +57.0dBm

Ref.: PB-DB-LS-700W-25009

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