

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

Taurus Line SSPA AWMAg-700L/S

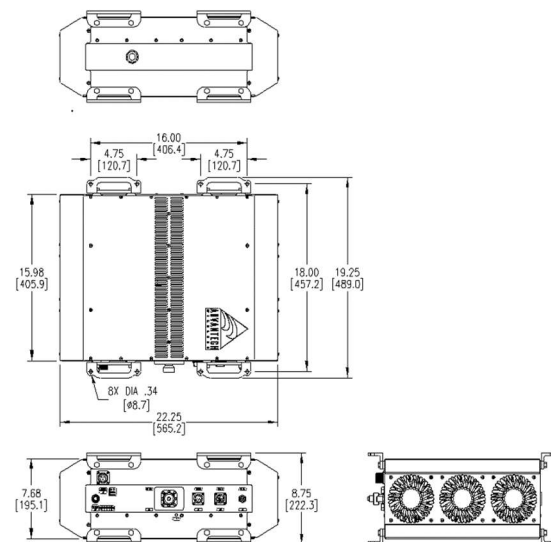
Solid State Technology for Satellite TT&C and Deep Space Communication

- 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 _{SAT} , at Flange | +58.5dBm nominal * | |
| P _{LINEAR} | +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, (-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 P _{lin} | |
| 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 +57.0dBm

Ref.: PB-DB-LS-700W-23320

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