



HIGH POWER AMPLIFIER 750W DBS-BAND Outdoor HPA 2717BU with built-in BUC

ND SATCOM has been a supplier to the SatCom industry for over three decades and has built up an excellent reputation for consistently developing high-end satellite communication products at competitive prices for customers in more than 130 countries worldwide. Our team of dedicated engineers works closely together with customers worldwide to develop, tailor and adapt our product portfolio to deliver innovative broadcast and network solutions that fit evolving market requirements with superior reliability and quality.

As a system integrator for broadcasters and military forces operating worldwide, we design both indoor and outdoor HPAs whose modular construction is compact, reliable, easy to service and high performing. Our products are designed to adapt development to your operational needs, thus providing highly secure, custom-engineered solutions that have long established us as a trusted and reliable partner in satellite communications.

Unrivalled RF Performance

Combines supreme power efficiency and low phase noise (typ. IESS 308/309) for a RF performance that is second to none.

Efficient and Reliable

Our Electrical Power Conditioners designed for satellites operate with very low in-rush current (110%) and active power factor correction. Thus the power consumption, weight, and dimensions of the ND SATCOM HPAs are best of breed.

Safe and Durable

For enhanced TWT longevity, the high voltage section is potted and all other electrical components are coated to protect against humidity and dust.

Compact

Its light-weight (only 36kg or 79lbs) and small dimensions make it ideal for both transportable and compact fixed uplink stations.

Easy to Maintain

All RF parameters can be monitored and controlled directly or by remote access.

Rapid Response

- Quick delivery
- After-Sales Support: typically 1-week turnaround time
- Made in Germany: EUR1 certificate / no ITAR restrictions

Options

- Integrated BUC and Linearizer
- Waveguide Switching System
- Remote control panel (outdoor versions)
- Water cooling
- Plug-in/plug-out exchange kit for CPI HPAs, including adaptation of interface protocol and all mechanical connections

ND SATCOM



HPA 2717BU

RF SPECIFICATIONS		
Frequency Range	17.30 - 18.40 GHz	
Flange Power	> 650 W, > 58.1 dBm	
IF Frequency	950 - 2050 MHz	
TWT Power	750 W Tube	
Gain at Rated Power	> 65 dB	
Small Signal Gain (10 dB OBO)	> 72 dB	
Gain Adjust	> 0 - 20 dB, min. step size 0.1 dB	
Gain Stability	< ± 0.25 dB / °C / 24 hrs after 60 min warm-up	
Gain Slope	< 0.02 dB / MHz	
Gain Variation	< 1.0 dB / in any 80 MHz, < 2.5 dB / in any 500 MHz, < 5.5 dB / full band	
VSWR	< 1.4:1 Input < 1.2:1 Output (waveguide)	
Group Delay (in any 40 MHz)	< 0.03 ns / MHz linear, < 0.01 ns / MHz ² parabolic, < 1 ns ripple	
Intermodulation (two equal carriers at total output power)	Without Linearizer 2717BU < -21 dBc at 6 dB below rated power	With Linearizer 2717BUL < -30 dBc at 4 dB below rated power (meets ASTRA access agreement 6.4.2 for FSS Band with rated power -2dB)
AM/PM Conversion	< 2.5° / dB at 7 dB below rated power, < 6° / dB at rated output power	
Noise Figure	< 15 dB max	
Phase Noise	Meets IESS 308/309	
Noise and Spurious Emissions	< -65 dBW / 4 kHz (inband) < -120 dBW / 4 kHz 10.7..12.7 GHz	
Harmonic Output Suppression	< -80 dBc at rated output	
Conversion Scheme	Single up-conversion, no frequency inversion	
Physical		
Input RF Connector	N-Jack Input / N-Jack Testport	
Output RF Connector	WR 62 Waveguide Output, grooved, UNC 6/32	
Dimensions (L X W X H)	649 x 294 x 233 mm	
Weight	< 36 kg / 79 lbs	
Cooling	forced air min. 200 m ³ /h	
Monitor & Control		
Serial Remote Interface	PT 851-00R12-10S50 RS422/RS485	
Alarm / Mute Interface	PT 851-00R12-10S50	
Parallel Remote Interface	PT 851-00R19-10S50	
Automatic Level Control	Activation via RC Protocol	
Electrical Specifications		
AC Power	190 to 240 VAC / 50-60 Hz, single phase	
Power Factor	> 95%	
Power Consumption	< 2350 W max.	
Inrush Current	< 110%	
CE Directive	73/23/EEC, 92/31/EEC, 89/336/EEC and 1999/5/EC	
Environmental Specifications		
Temperature Range (operational)	-40°C to +50°C	
Humidity	< 95% condensing at 40°C	
Shock and Vibration	For normal commercial transport	
Noise Level (cooling fan)	< 65 dBA measured in 1 m distance	

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