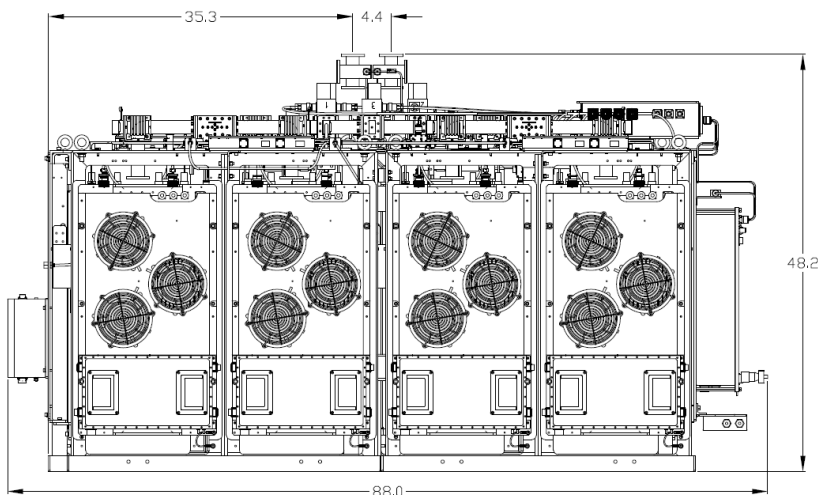


3,000W C-Band Hubmount UltraLinear™ Summit™ Modular SSPA/ SSPB

SSPA
SSPB (BUC)

AWMA-C
SSPBM-C

Summit™ Series
Summit™ Series



- Transmits either 1,700W on each polarization (two separate inputs/outputs) or 3kW on any polarization as phase combined (one input/ one output)
- High power density in a compact, weatherproof package
- UltraLinear™, designed for Multi Carrier Operations and high order modulation
- High Reliability, High Linearity, Built-in Redundancy



- Save 8 to 10 dB power compared to Indoor Klystrons
- Substantial Savings in Energy Cost, Satellite Bandwidth, CAPEX
- Can cover multiple transponders, fully DVB-S2X enabled
- Ruggedized, Weatherproof Outdoor Package,
- MIL-STD-188-164A Compliant
- Built in Redundancy, Field replaceable RF or Power Supplies Modules

- The Highest Linear Power Available in a single outdoor package.
- Backed by over 25 years of Outdoor SSPA design and manufacturing.

3,000W C-Band Hubmount Summit™ / UltraLinear™ SSPA/ SSPB

Specifications			
Operating Frequency		5.85 – 6.725 GHz	
L-Band input (BUC)		950 – 1825 MHz	
Output Power		1700W	3000W
PSAT		62.0 dBm on each polarization	64.5 dBm on any single polarization
P1dB		61.0 dBm	63.5 dBm
Gain	SSPA SSPB (BUC)	68 ± 3 dB 78 ± 3 dB	
Gain adjustment range		20 dB in 0.1 dB steps	
Gain flatness over full band		SSPA 2dB p-p max SSPB (BUC) 4 dB p-p max	
Gain slope over 40 MHz		± 0.3 dB max SSPB (BUC) ± 0.5 dB max	
Gain variation over temperature		± 1.5 dB max	
Input Impedance and VSWR		50 Ω SSPA 1.3:1 SSPB (BUC) 1.4:1	
Output VSWR		1.3:1	
Noise power density		-75 dBm/Hz in Transmit Band, -145 dBm/Hz in Receive Band	
Spurious at P _{LINEAR}		SSPA: -65 dBc max SSPB (BUC): -55 dBc max	
Harmonics		-50 dBc @ P _{1dB}	
AM/PM conversion		<1.0°/dB P _{1dB}	
Third order intermod (two tones)		-25 dBc two signals 5 MHz apart at 3dB Back-off from P1dB	
Group delay		Ripple	1 nsec p-p max over any 40 MHz band
SSPB (BUC)			
Local Oscillator freq.		4.9 GHz	
Internal Reference frequency (optional)		10 MHz	Aging/day ±2 × 10 ⁻¹⁰ Aging/year ±5 × 10 ⁻⁸ Stability ±2 × 10 ⁻⁸ over temp range
Phase Noise		-53 dBc/Hz at 10Hz -63 dBc/Hz at 100Hz -73 dBc/Hz at 1000Hz	-83 dBc/Hz at 10 kHz -93 dBc/Hz at 100 kHz
External Reference Frequency phase noise (max)		10 MHz -120 dBc/Hz at 10Hz -135 dBc/Hz at 100Hz -150 dBc/Hz at 1000Hz	-155 dBc/Hz at 10 kHz -160 dBc/Hz at 100 kHz
Weight & Dimensions			
Dimensions		L x W x H 88" x 47.2" x 48.20" (2235 x 1199 x 1224 mm)	
Weight		1320 lbs (600 kg)	
AC input voltage		190 – 265 VAC (47-63 Hz)	
Power consumption		20,000W at P _{LINEAR} 25,000W at P _{SAT}	
Interfaces		Input (RF or L-Band) - N type female AC line - MS3102 type Output Sample Port - N type female RF output - CPR137G RS485/Ethernet	

Ref.: PB-SSPBm-C-3000-001-18338

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