

Sierra-Line X Band GaN SSPA BUC

Overview

The Sierra-Line SSPAs / BUCs are an ideal solution for both mobile and fixed Communication terminals. The Sierra-X Line SSPAs / BUCs are designed for high efficiency resulting in an optimal compact form factor with high performance and reliability. With advanced customer interface and HTTP embedded web page, the operator is able to monitor and control the BUC and the System Redundancy.

• X-Band: 40W / 50W / 80W / 100W

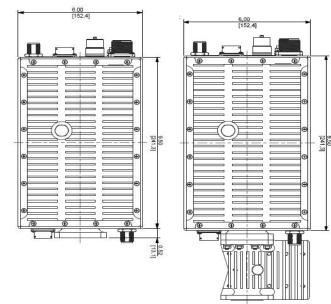
Features

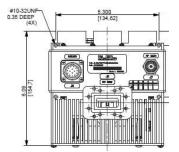
- Compact size
- Available in AC or DC
- Up to 100W of RF Output Power
- Up to 50W of Linear power
- Built-in monitoring of critical parameters such as: RF power detection, mute control, over temperature shutdown, summary alarm
- IP67 rated housing and fan (weather proof construction)
- M&C Interfaces included: RS485, RS232, Ethernet and dry-contacts
- WEB interface and SNMP monitoring
- 1:1 and 1:2 built-in Redundant Ready to eliminate external controller

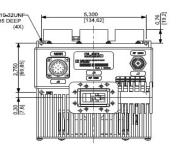
Options

- Int/Ext 10MHz reference with Auto-sensing
- Output sample port
- Remote control unit









X-Band 50w

X-Band 100w



Sierra-X Line GaN SSPA BUC

	X-Band					
40W	5	0W	80V	V	100W	
46 dBm	47	dBm	49 dE	3m	50 dBm	
43 dBm	44	dBm	46 dE	3m	47 dBm	
7.9 – 8.4 GHz						
950 – 1450 MHz						
6.95 GHz						
70 dB nominal						
0 dBm						
± 2.0 dB max						
± 0.4 dB max / 40 MHz max.						
± 2.0 dB over max over operating temperature range						
20 dB in 0.1 dB steps						
14 dB min. (1.5:1 max)						
-30dBc @PLinear (QPSK, 8PSK at 1.0 x Symbol Rate offset, Alpha 0.25)						
@ 100 Hz	@ 1 KHz	@	10 KHz	@ 100 KH	lz @1 MHz	
-63 dBc/Hz max	-73 dBc/Hz ma	ix -83 d	Bc/Hz max	-93 dBc/Hz	max -103 dBc/Hz max	
-60dBc max @PLinear						
-60dBc max @PLinear						
< 2deg/dB at PLin						
Input (1:50:1) Output (1.30:1)						
40W	5	50W		v	100W	
375W	400W		475W		500W	
110-220 VAC or optional 48 VDC isolated						
90 – 265 VAC						
47 – 63 Hz						
	W	aveguide CPF	112G (Groove	ed)		
-						
DC Connector: MS3102P16-11P					dundancy: MS3112E14-15P	
		M&C: MS3				
		Force	ed Air			
40W – 50W		80W – 100W				
9.3 x 5.8 x 6.1 in / 23.6 x 14.7 x 15.5 cm			13.5 x 5.8 x 6.1 in / 34.3 x 14.7 x 15.5 cm			
14.0 lbs / 6.4 kg			15.0 lbs / 6.8 kg			
Temperature Ra	nge (ambient)		Humidity		Altitude	
	-40°C to + 55°C (operating)					
		torage) 01				
	46 dBm 43 dBm 43 dBm 	40W 5 46 dBm 47 43 dBm 44 400 5 400 + 50W 5 375W 40 110-22 110-22 40W 5 375W 40 110-22 40W 5 375W 40W 50W 9.3 x 5.8 x 6.1 in / 23.6 x 14.7 x 14.0 lbs / 6.4 kg 40W - 50W 9.3 x 5.8 x 6.1 in / 23.6 x 14.7 x 14.0 lbs / 6.4 kg	40W 50W 43 dBm 44 dBm 43 dBm 44 dBm 43 dBm 44 dBm 43 dBm 950 - 14 950 - 14 6.95 950 - 14 6.95 950 - 14 6.95 950 - 14 6.95 950 - 14 6.95 950 - 14 0 c 100 H2 ± 2.0 dB over max over op 20 dB in 0 14 dB min. 14 dB min. 14 dB min. 16 00 Hz 0 14 dB min. 63 dBc/Hz max -73 dBc/Hz max -83 d -60 dBc max -60 dBc max -60 dBc max -60 dBc max -73 dBc/Hz max -83 d -60 dBc max -73 dBc/Hz max -83 d -60 dBc max -60 dBc max -60 dBc max -10 UT 110-220 VAC or opti 90 - 2 90 - 2 470 - 90 - 2 47 - UX 110-220 VAC or opti 90 - 2 47 - 90 - 2 90 - 2 47 - 90 - 2 90 - 2 47 - 90 - 2 90 - 2	40W 50W 80V 46 dBm 47 dBm 49 dE 43 dBm 44 dBm 46 dE 43 dBm 44 dBm 46 dE 7.9 - 8.4 GHz 950 - 1450 MHz 6.95 GHz 6.95 GHz 70 dB nominal 0 dBm ± 2.0 dB nax ± 2.0 dB max ± 2.0 dB max ± 2.0 dB over max over operating temper 20 dB in 0.1 dB steps -63 dBc/Hz max -30dBc @PLinear (QPSK, 8PSK at 1.0 x Symbol Rai -63 dBc/Hz max -73 dBc/Hz max -83 dBc/Hz max -63 dBc/Hz max -73 dBc/Hz max -83 dBc/Hz max -60dBc max @PLinear -60dBc max @PLinear -60dBc max @PLinear -60dBc max @PLinear	40W 50W 80W 46 dBm 47 dBm 49 dBm 43 dBm 44 dBm 46 dBm 43 dBm 44 dBm 500 Hz 595 GHz 595 GHz 595 GHz 6.95 GHz 70 dB nominal 695 GHz 2.0 dB max 40 MHz max. 40 MHz max. ± 2.0 dB over max over operating temperature range 20 dB in 0.1 dB steps 14 dB min. (1.51 max) 91 00 Hz •30dBc @PLinear (QPSK, 8PSK at 1.0 x Symbol Rate offset, Alpl @ 100 Hz •30dBc @PLinear -83 dBc/Hz max -93 dBc/Hz -63 dBc/Hz max -73 dBc/Hz max -83 dBc/Hz max -93 dBc/Hz -60dBc max @PLinear -60dBc max @PLinear -93 dBc/Hz -60dBc max @PLinear <2deg/dB at PLin	

Ref.: PB-AWT-SMLg-X-25049

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