

C-Band Hub-mount SSPB



Technical Specifications	300W	400W	500W
Electrical Characteristics			
Availability in this series			
CS, CR	√	√	√
CX, CI, CP, CL	√	√	Note 1
Output power (P _{SAT})	+55 dBm	+56 dBm	+57 dBm
Output power (P1dB) min	+54 dBm	+55 dBm	+56 dBm
Conversion gain @ maximum setting	75 dB	76 dB	77 dB
Gain adjustment range	20 dB		
Frequency range	See table A on front page		
Frequency sense	Non-inverting except for CX band (5.85 GHz – 6.725 GHz)		
Max input power without damage	+10 dBm		
Gain flatness	±2.0 dB, max over full band, 0.3 dB/10 MHz @ 25°C		
Gain variation over temperature	±1.5 dB over full operating range		
Gain variation over 24 hours	±0.25 dB max @ constant temperature & drive level		
Input Return loss	18 dB		
Output return loss	19 dB		
Noise Power Density	-70 dBm/Hz max in TX band -140 dBm/Hz in RX band		
Spurious at rated power	-60 dB, max		
Harmonics at rated power	-70 dBc max		
AM/PM conversion at rated power	2.5°/dB max. at P1dB, 1°/dB max. at 3 dB back-off		
Third order IMD (2 tones)	-26 dBc, max @ 3 dB back-off from rated P1dB		
Local oscillator frequency (LO)	See table A on front page		
LO leakage	-20 dBm		
Phase noise	-50 dBc/Hz at 10Hz -65 dBc/Hz at 100Hz	-75 dBc/Hz at 1000Hz -85 dBc/Hz at 10 kHz	-95 dBc/Hz at 100 kHz -105 dBc/Hz at 1 MHz
Group delay (over any 40 MHz):	Linear Parabolic Ripple	0.02 ns /MHz, max 0.003 ns/MHz ² , max 1 nsec p-p, max	
Reference (auto-switching)			
<i>Note: In case external reference is not provided, the unit will automatically switch to internal reference. For 1:1 redundant operation, internal 10MHz reference is recommended</i>			
Reference frequency	10 MHz		
Reference frequency phase noise	-115 dBc/Hz at 10 Hz -135 dBc/Hz at 100 Hz -148 dBc/Hz at 1000 Hz	-150 dBc/Hz at 10 kHz -160 dBc/Hz at 100 kHz	
Reference frequency level	0 dBm ± 5 dB		
Power Requirements			
AC input voltage	190 to 265 VAC (47-63 Hz)		
Power consumption (nominal)	1700W	2200W	2700W
Mechanical Characteristics			
Dimensions (L x W x H)	30.00" x 16.00" x 11.00" (88.90 x 49.53 x 37.97 cm)		
Weight	117 lbs (53 kg)		
Interfaces :	RF input Type N (F) Relay port MS3112E12-10P AC Line MS3102E20-19P	Redundancy RS-232 RS-485	MS3112E16-26P MS3112E10-6P MS3112E10-6P
			RF output CPR137 contact (for CL series - Type N (F))
Environmental Conditions			
Temperature: Operating Storage	-30°C to +55°C; Option: E-40°C to +55°C; G: -50°C to +50°C -55°C to +85°C		
Humidity	100%, condensing (2" rain/hour)		
Altitude	10,000' AMSL, de-rated 2°C/1,000' from AMSL		

Note 1. Please refer to SSPB-5000C® product datasheet

An ISO 9001 : 2008 Company



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Specifications are subject to change without prior notice