

C-Band SSPA

9660/9612H/9624H

SPECIFICATIONS

Frequency range	5.85 to 6.425 GHz	Control	Mute
Output power @ 1 dB GCP			Gain
9660	+47.8 dBm (60 W) typical +47.0 dBm (50 W) minimum		Low/high power thresholds
9612H	+50.8 dBm (120 W) typical +50.0 dBm (100 W) minimum	Alarms	Over temperature
9624H	+53.8 dBm (240 W) typical +53.0 dBm (200 W) minimum		FET failure
			Low/high RF power
Third order Intermodulation products (2 equal carriers each at 6 dB OPBO from 1 dB GCP)	-26 dBc maximum	Alarm logic levels	Dry contacts
		Serial interface	RS232/RS422/RS485
Gain		Data rate	300/1200/2400/9600 bit/s
Gain (small signal)	65 dB minimum (0 dB SSPA attenuator setting)	Power supply	
Gain variation		Voltage	115/230 V AC -10%/+15%, 47 to 63 Hz
5.85 to 6.425 GHz	±1.0 dB maximum	Consumption	
Any 40 MHz in band	±0.3 dB maximum	9660	400 VA typical
Gain stability	±1.5 dB maximum, -5°C to +45°C	9612H	750 VA typical
Gain adjustment	0 dB to -20 dB in 0.2 dB steps	9624H	1450 VA typical
Noise power (at max gain)	-90 dBm/Hz maximum	Connectors	
AM/PM conversion (at 1 dB OPBO from 1 dB GCP)	2°/dB maximum	Input	SMA female, 50 Ω
Spurious (at rated output power, in band)	-65 dBc maximum	Output	
Harmonics (at rated output power)	-50 dBc maximum	SSPA	UER70 waveguide flange (8 holes, M4 x 8 mm deep)
Group delay		via adaptor supplied	CPR137F waveguide flange (8 holes, M5 x 8 mm deep)
Linear	0.03 ns/MHz	RF monitor	SMA female, 50 Ω
Parabolic	0.003 ns/MHz ²	Remote interfaces	25-way D-type sockets with screw locking
Ripple	1 ns p-p	AC	
VSWR		9660/9612H	IEC chassis plug
Input	1.3:1 maximum	9624H	Fixed cable
Output	1.25:1 maximum	Operating environment	
Protection	Over temperature shutdown Output Isolator	Operating temperature	-5°C to +45°C
Monitor and control		Humidity	Up to 95% non-condensing
Monitor	RF power meter RF monitor @ -41 dBc nominal FET flange temperature Internal supply rail voltages Status and alarms	Cooling	Forced air
		Mechanical	
		Size	
		9660 and 9612H	Standard 19" rack (3RU) 482 mm W x 530 mm D x 132 mm H Chassis to 297-1 IEC
		9624H	Standard 19" rack (5RU) 482 mm W x 585 mm D x 222 mm H Chassis to 297-1 IEC
		Weight	
		9660 and 9612H	24 kg
		9624H	38 kg
		Mounting	Sliding rails

Specifications subject to change without notice or obligation



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