

# C-Band SSPA

## 9660/9612H/9624H

## SPECIFICATIONS

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

Specifications subject to change without notice or obligation



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