

# Ku-Band SSPA

## 9440/9480

## SPECIFICATIONS

<b>Frequency range</b>	14.0 to 14.5 GHz	<b>Control</b>	Mute
<b>Output power @ 1 dB GCP</b>			Gain
9440	+46.7 dBm (47 W) typical +46.0 dBm (40 W) minimum		Low/high power thresholds
9480	+49.0 dBm (80 W) typical +48.5 dBm (70 W) minimum	<b>Alarms</b>	Over temperature
			FET failure
			Low/high RF power
<b>Third order intermodulation products</b> (2 equal carriers each @ 6 dBc OPBO from 1 dB GCP)	-25 dBc maximum	Alarm logic levels	Dry relay contacts
		Serial interface	RS232/RS422/RS485
		Data rate	300/1200/2400/9600 bit/s
<b>Gain</b>		<b>Power supply</b>	
Gain (small signal)	60 dB minimum (0 dB SSPA attenuator setting)	Voltage	115/230 VAC -10%/+15%, 47 to 63 Hz
Gain variation		Consumption	
14.0 to 14.5 GHz	±1.0 dB maximum	9440	430 VA typical
Any 40 MHz band	±0.3 dB maximum	9480	800 VA typical
Gain stability	±1.5 dB maximum, -5°C to +45°C	<b>Connectors</b>	
Gain adjustment	0 dB to -20 dB in 0.2 dB steps	RF input	SMA female, 50 Ω
		RF output	UBR120 flange (WR75) (4 holes, M4 x 8 mm deep)
<b>Noise power</b> (@ max gain)	-82 dBm/Hz maximum	RF monitor	SMA female, 50 Ω
		Remote interfaces	25-way D-type sockets with screw locking
<b>AM/PM conversion</b> (@ 1 dB OPBO from 1 dB GCP)	2°/dB	AC input	IEC chassis plug
		<b>Operating environment</b>	
<b>Spurious output</b> (@ rated output power, in band)	-65 dBc maximum	Operating temperature range	-5°C to +45°C
		Relative humidity	Up to 95% non-condensing
<b>Harmonics</b> (@ rated output power)	-50 dBc maximum	Cooling	Forced air
		<b>Mechanical</b>	
<b>Group delay (over 40 MHz)</b>		Size	
Linear	0.03 ns/MHz	9440	Standard 19" rack (3RU) 482 mm W x 590 mm D x 132 mm H
Parabolic	0.003 ns/MHz <sup>2</sup>		
Ripple	1 ns p-p	9480	Standard 19" rack (5RU) 482 mm W x 590 mm D x 222 mm H
<b>VSWR</b>		Weight	
Input	1.3:1 maximum	9440	25 kg
Output	1.25:1 maximum	9480	37 kg
<b>Protection</b>	Over temperature shutdown Output isolator	Mounting	Sliding rails
<b>Monitor and control</b>			
Monitor	RF power meter RF monitor @ -41 dBc nominal FET flange temperature Internal supply rail voltages Status and alarms		

Specifications subject to change without notice or obligation



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