

Ku-Band SSPA

9440/9480

SPECIFICATIONS

Frequency range	14.0 to 14.5 GHz	Control	Mute
Output power @ 1 dB GCP			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	Alarms	Over temperature
			FET failure
			Low/high RF power
Third order intermodulation products (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
Gain		Power supply	
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	Connectors	
Gain adjustment	0 dB to -20 dB in 0.2 dB steps	RF input	SMA female, 50 Ω
Noise power (@ max gain)	-82 dBm/Hz maximum	RF output	UBR120 flange (WR75) (4 holes, M4 x 8 mm deep)
AM/PM conversion (@ 1 dB OPBO from 1 dB GCP)	2°/dB	RF monitor	SMA female, 50 Ω
Spurious output (@ rated output power, in band)	-65 dBc maximum	Remote interfaces	25-way D-type sockets with screw locking
Harmonics (@ rated output power)	-50 dBc maximum	AC input	IEC chassis plug
Group delay (over 40 MHz)		Operating environment	
Linear	0.03 ns/MHz	Operating temperature range	-5°C to +45°C
Parabolic	0.003 ns/MHz ²	Relative humidity	Up to 95% non-condensing
Ripple	1 ns p-p	Cooling	Forced air
VSWR		Mechanical	
Input	1.3:1 maximum	Size	
Output	1.25:1 maximum	9440	Standard 19" rack (3RU) 482 mm W x 590 mm D x 132 mm H
Protection	Over temperature shutdown Output isolator	9480	Standard 19" rack (5RU) 482 mm W x 590 mm D x 222 mm H
Monitor and control		Weight	
Monitor	RF power meter RF monitor @ -41 dBc nominal FET flange temperature Internal supply rail voltages Status and alarms	9440	25 kg
		9480	37 kg
		Mounting	Sliding rails

Specifications subject to change without notice or obligation



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