

# Ku-Band SSPA

## 5940

## SPECIFICATIONS

<b>Frequency range</b>	14.0 to 14.5 GHz	<b>Control</b>	Mute
<b>Output power @ 1 dB GCP</b>	+46.7 dBm (47 W) typical +46.0 dBm (40 W) minimum		Gain
<b>Third order intermodulation products</b> (2 equal carriers each @ 6 dB OPBO from 1 dB GCP)	-25 dBc maximum	Summary alarm	Low/high power thresholds
<b>Gain</b>		Alarm logic levels	Over temperature
Gain @ rated output power	60 dB minimum (0 dB SSPA attenuator setting)	Serial interface	FET failure
Gain variation		Data rate	Low/high RF power
14.0 to 14.5 GHz	±1.0 dB maximum	<b>DC outputs</b>	Dry relay contacts
Any 40 MHz band	±0.3 dB maximum	Main output	RS232/RS422/RS485
Gain stability	±1.5 dB maximum, -40°C to +55°C	Auxiliary output	300/1200/2400/9600 bit/s
Gain adjustment	0 dB to -20 dB in 0.2 dB steps	Total capacity	
<b>Noise power</b> (@ max gain)	-82 dBm/Hz maximum	<b>Power supply</b>	
<b>AM/PM conversion</b> (@ 1 dB OPBO from 1 dB GCP)	2°/dB maximum	Voltage	104 to 274 V AC, 47 to 63 Hz
<b>Spurious output</b> (@ rated output power, in band)	-65 dBc maximum	Consumption	450 VA typical
<b>Harmonics</b> (@ rated output power)	-50 dBc maximum	<b>Connectors</b>	
<b>Group delay (over 40 MHz)</b>		RF input	N female, 50 Ω
Linear	0.03 ns/MHz	RF output	PBR120 flange (WR75) (4 holes, M4 x 8 mm deep)
Parabolic	0.003 ns/MHz <sup>2</sup>	RF monitor	N female, 50 Ω
Ripple	1 ns p-p	Monitor and control	MS3114E14-19P
<b>Return loss</b>		AC input	Amphenol T3110 000
Input	1.3:1 maximum	-48 V DC outputs	MS3114E8-2S
Output	1.25:1 maximum	<b>Operating environment</b>	
<b>Protection</b>	Over temperature shutdown Output isolator	Operating temperature range	-40°C to +55°C
<b>Monitor and control</b>		Relative humidity	100%
Monitor	RF power meter RF monitor @ -40 dBc nominal FET flange temperature Internal supply rail voltages Status and alarms	Sealing	IP66
		Cooling	Forced air
		<b>Mechanical</b>	
		Size	280 mm W x 355 mm D x 495 mm H
		Weight	27 kg

CE 0682 ①

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Specifications subject to change without notice or obligation



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