

# C-Band SSPA

## 5760/5712H

### SPECIFICATIONS

<b>Frequency range</b>	5.850 to 6.425 GHz	<b>Control</b>	Mute
<b>Output power @ 1 dB GCP</b>			Gain
5760	+47.8 dBm (60 W) typical +47.0 dBm (50 W) minimum	Summary alarm	High/low power thresholds
5712H	+50.8 dBm (120 W) typical +50.0 dBm (100 W) minimum	Alarm logic levels	Over temperature
<b>Third order intermodulation products</b>		Serial interface	FET failure
(2 equal carriers each @ 6 dB OPBO from 1 dB GCP)	-26 dBc maximum	Data rate	Low/high RF power
<b>Gain</b>		<b>DC outputs</b>	Dry relay contacts
Gain @ rated output power	65 dB minimum (0 dB SSPA attenuator setting)	Main output	RS232/RS422/RS485
Gain variation		Auxiliary output	300/1200/2400/9600 bit/s
5.850 to 6.425 GHz	±1.0 dB maximum	Total capacity	
Any 40 MHz band	±0.3 dB maximum	<b>Power supply</b>	
Gain stability	±1.5 dB maximum, -40°C to +55°C	Voltage	-48 V DC
Gain adjustment	0 dB to -20 dB in 0.2 dB steps	Consumption	-48 V DC
<b>Noise power</b>		5760	75 W (1.5 A) maximum
(@ max gain)	-90 dBm/Hz maximum	5712H	
<b>AM/PM conversion</b>		<b>Connectors</b>	
(@ 1 dB OPBO from 1 dB GCP)	2°/dB maximum	RF input	104 to 274 V AC, 47 to 63 Hz
<b>Spurious output</b>		RF output	460 VA typical
(@ rated output power, in band)	-65 dBc maximum	RF monitor	740 VA typical
<b>Harmonics</b>		Monitor and control	
(@ rated output power)	-50 dBc maximum	AC input	
<b>Group delay (over 40 MHz)</b>		-48 V DC outputs	
Linear	0.03 ns/MHz	<b>Operating environment</b>	
Parabolic	0.003 ns/MHz <sup>2</sup>	Operating temperature range	-40°C to +55°C
Ripple	1 ns p-p	Relative humidity	100%
<b>VSWR</b>		Sealing	IP66
Input	1.3:1 maximum	Cooling	Forced air
Output	1.25:1 maximum	<b>Mechanical</b>	
<b>Protection</b>		Size	280 mm W x 355 mm D x 495 mm H
Over temperature shutdown		Weight	27 kg
Output isolator			
<b>Monitor and control</b>			
Monitor	RF power meter		
	RF monitor @ -41 dBc nominal		
	FET flange temperature		
	Internal supply rail voltages		
	Status and alarms		

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<b>Head Office</b>	<a href="http://www.codan.com.au">www.codan.com.au</a>	12-20136-EN	Issue 4: 10/04
Codan Limited ABN 77 007 590 605 81 Graves Street Newton SA 5074 AUSTRALIA Telephone +61 8 8305 0311 Facsimile +61 8 8305 0411 <a href="mailto:asiasales@codan.com.au">asiasales@codan.com.au</a>	Codan Limited ABN 77 007 590 605 105 Factory Road Oxley Qld 4075 AUSTRALIA Telephone +61 7 3716 6333 Facsimile +61 7 3716 6350	Codan (UK) Ltd Gostrey House Union Road Farnham Surrey GU9 7PT UNITED KINGDOM Telephone +44 1252 717 272 Facsimile +44 1252 717 337 <a href="mailto:uksales@codan.com.au">uksales@codan.com.au</a>	Codan US, Inc. 8430 Kao Circle Manassas VA 20110 USA Telephone +1 703 361 2721 Facsimile +1 703 361 3812 <a href="mailto:ussales@codan.com.au">ussales@codan.com.au</a>

