CODAN

SATELLITE COMMUNICATIONS

C-Band SSPA
9660/9612H/9624H

SPECIFICATIONS

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

Specifications subject to change without notice or obligation

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