

NEW GENERATION OF LDMOS BASED SSPAs FOR INDUSTRIAL, SCIENTIFIC & MEDICAL APPLICATIONS

Using ruggedized **LDMOS technology**, the new CW / PW SSPA family offers outstanding performance in indoor operations

COOLING FLEXIBILITY

Air and liquid cooling solutions available.

MODULARITY

Combination in phase of SSPAs delivers **output powers up to a few kW**s on amplification modules.

EFFICIENCY & RELIABILITY

Super linearity for maximum useable output power to provide customised linearity characteristics.

Robust performance guaranteed through individual unit testing over temperature at factory.

Built-in output isolator for protection against full reflected power.

MONITORING & CONTROL

Discrete digital and analog signal interfaces for telemetries, commands and alarms.



KEY FEATURES

- * Highly efficient
- * Super high linear power
- * Superior lifetime based on LDMOS-tech
- * High MTBF
- * Compact design
- * Simple operation & maintenance
- * User friendly LED indicators/display for local control
- * Fault & alarm interfaces
- * Standard 19" rack mounting
- * ISM uses: industrial, scientific & medical



OTHER FEATURES

- * Air cooled
- * Standard 19" rack mounting

OPTIONS

- * Customizable input level range
- * Customizable attenuation adjustment range

ELECTRICAL

Input frequency range	3 GHz \pm 5 MHz
Operating mode	Pulsed wave
Output power ($P_{1\text{ dB (typical)}}$)	55.44 dBm
Gain	> 57 dB
Gain flatness	< 1 dB
Input level (nominal)	-2 dBm to 4 dBm
Attenuation adjustment range	6 dB
Input VSWR	<1.4:1
Output VSWR	Full reflection all phases
Pulse characteristics	Pulse width: 100 ms max. Duty cycle: 10 % max. Rise/fall time: <50 ns

POWER SUPPLY

Input voltage	AC 100-264 VAC 50/60 Hz
Power consumption @ P_{SAT}	<1200 W

INTERFACES & PHYSICAL

Dimensions (W x H x D)	483 x 88 x 322 mm / 19" Standard, 2U height
Weight	11 kg
Interfaces	RF input: N-type (f), 50 Ω RF output: N-type (f), 50 Ω RF sample: SMA-type (f), 50 Ω AC line: IEC C14 w/ filter, fused Trigger: BNC-type (f), 50 Ω M&C: Dsub-25 (f)

MONITOR & CONTROL

Remote control	Discrete analog / Digital signals
Monitor parameters	Output power / Alarms: current, power supply, temperature & overduty
Internal self protection	Temperature / Fan failure / Overduty / PS failure

ENVIRONMENTAL

Operating temperature	10 °C to 40 °C
Storage temperature	-40 °C to +85 °C
Humidity	90 % non-condensing

TTI CONTACT

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NOTICE

Information contained in this document is subject to change without notice.

Unless otherwise specified, tests have been done at 23 °C.