



350 W Pulsed S-band SSPA

Very rugged LDMOS technology based class-AB SSPA designed for ISM & radar applications

TECHNICAL SPECIFICATIONS

ELECTRICAL

| | |
|----------------------------|---------------------------------|
| Frequency range | 2900 to 3100 MHz |
| Peak output power | 350 W |
| Pulse width, duty cycle | 2 to 100 μ s, 10% (typical) |
| Input power | -2 to 4 dBm |
| Gain control range | 6 dB |
| Pulse rise & fall time | < 20 ns |
| Pulse power droop | < 0.3 dB |
| Pulse to pulse power/phase | < 2% /2° |
| Input RL | > 18 dB |
| Load VSWR | Full reflection at any phase |

MECHANICAL & INTERFACES

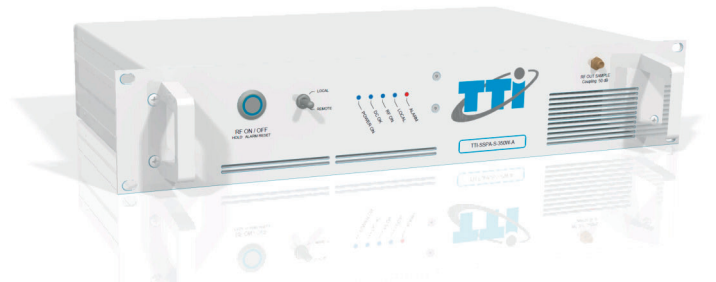
| | |
|----------------------|--|
| RF input connector | SMA, female 50 Ω |
| RF output connector | N, female 50 Ω |
| RF output sample | SMA, female 50 Ω |
| Gate input | SMA, female 50 Ω |
| Control & monitoring | DB25, female |
| Line in | 100 - 264 VAC 50/60 Hz including fuses and ON/OFF switch |
| Size & weight | 2U 19" rack, 282 mm depth, 111 kg |

MONITORING & CONTROL PARAMETERS

| | |
|------------------------------|--|
| Control | Local & remote |
| Local indication | LED (Power ON, AC/DC OK, Local, RF ON, Alarm) |
| Monitor & control parameters | Output power, gain control, power supply status, alarm (over temperature, over current, over duty) |

ENVIRONMENTAL

| | |
|-----------------------|--------------------------|
| Environment | Indoor operation |
| Cooling | Forced air (fans) |
| Operating temperature | 10°C to 40°C |
| Humidity | Up to 90% non-condensing |



Key Features

- Compact design
- High efficiency and reliability
- Excellent thermal stability
- Excellent pulse fidelity
- Excellent ruggedness
- Can be combined for high power level

