



Q band SSPA

25W

TTI-SSPA-Q-4546-20W-A

Q band SSPA

Innovative Technology

State-of-the-art technology offering the very highest output power with wideband at Q band. Outstanding performance within a compact packaging.

Reliability and modularity

Reliable and versatile technology. Options to increase the number of power stages and achieve higher output powers, as well as other frequency bands.

Applications

Designed for satellite communications, for outdoor and indoor operation.

Monitoring & Control

Full M&C capability is provided with RS-485/USB (ASCII commands) and optionally via an Ethernet port (Telnet, HTTP with embedded web page or SNMP). Discrete lines for mute and turn on/off functionalities and a summary alarm (Form C relay and discrete) are in place for a quick operation.



Key Features

- Satcom and load-pull applications

TECHNICAL SPECIFICATIONS

OPTIONS:

- Ethernet port (M&C)
- Extended temperature range (-40°C to +60°C)
- Monitoring: Forward & Reverse output power
- Redundant systems
- Remote M&C Panel

ELECTRICAL

Output Frequency	45 - 46.5 GHz
Output Power – Psat (typ)	25 W
Spectrum Inversion	None
Gain	>70 dB
Gain Flatness over the whole Band width	±1.5 dB
Gain Flatness over 40 MHz	±0.5 dB
Gain Stability over 24 hours	±0.25 dB @constant temperature
Gain Variation over Temperature	±1.5 dB over the whole range
Attenuation adjustment range	25 dB with 0.1 dB steps
Mute	>45 dB
Spurious	<-50 dBc
Input Q-band VSWR (50 Ω)	<1.5:1
Output Q-band VSWR (50 Ω)	<1.3:1

POWER SUPPLY

Input Voltage	V90-264 VAC, 50-60 Hz
Power Consumption @ Psat	495 W

MECHANICAL & INTERFACE

Dimensions (L x W x H)	340 x 210 x 169 mm (13.4" x 8.3" x 6.6")
Weight	12.3 kg (<27.1 lbs)
Interfaces	Q-band Input / Output: WR22 (UG599/U or UG-383/U) AC Line : 3 pin Military Circular M&C: RS-485 Ethernet upon request

MONITOR & CONTROL

Monitor Parameters	Temperature, On/Off, Summary Alarms
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ENVIRONMENTAL CHARACTERISTICS

Operating Temperature	-30 °C to +55 °C
Storage Temperature	-40 °C to +85 °C
Humidity	Up to 100%

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