Q band SSPA/SSPB
25W

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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.

Key Features

- Satcom and load-pull applications

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.

TECHNICAL SPECIFICATIONS

OPTIONS:

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

ELECTRICAL

Input Frequency band (SSPB)	950-1450 Mhz
Input L-band VSWR (50 Ω)	< 1.5:1
Output Frequency band	43-43.5 GHz
Output L-band VSWR (50 Ω)	< 1.3:1
Spectrum inversion	None
Output Power – Psat (typ)	25 W
Gain	> 60 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	± 2 dB over the whole range
Attenuation adjustment range	30 dB with 0.25 dB steps
Mute	> 60 dB
Spurious	< -50 dBc
Output phase noise typical	As per IESS-308/309
External reference	10 MHz / 0 dBm ± 5dB
External reference connector	Multiplexed on L-band input SMA (F) 50 Ω upon request

POWER SUPPLY

Input Voltage	V90-264 VAC, 50-60 Hz
Power Consumption @ Psat	400W

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	TX Input (L-Band + External Reference): Type N(F) 50 Ω
	TX Input (Q-band): WR22 (UG-383/U)
	AC Line : 3pin Military Circular
	M&C: RS-485 Ethernet upon request

MONITOR & CONTROL

Monitor parameters	Temperature, On/Off, Summary Alarms, Input level

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature	-10ºC to +55ºC
Storage Temperature	-40ºC to +85ºC
Humidity	Up to 100%

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