



# ITS ELECTRONICS INC.

MICROWAVE COMPONENTS AND SUBSYSTEMS

ISO 9001:2000 and SAE AS9100A Certified

## 25 Watt Ku-Band Power Amplifier



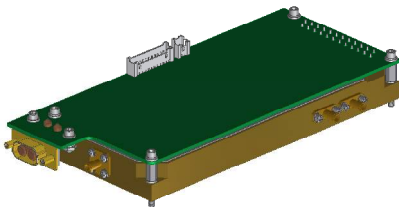
**MODEL: PA-1414A5-4445**

***This SSHPA is the smallest, most efficient Ku-Band power amplifier available.***

***This amplifier is specifically designed for satellite communications with QPSK modulations and is intended for operation in a variety of harsh environmental conditions, including airborne.***

***Standard features include mute, temperature compensation, single voltage DC supply and baseplate temperature monitor.***

***Extended frequency ranges and serial communications are optional.***



Frequency Range	14.0 to 14.5 GHz
Output Power at 1 dB Compression	+44 dBm (25 W)
Saturated Output Power	+45 dBm
Small Signal Gain	45 dB
Gain Flatness over 500 MHz	+/- 1.0 dB max
Gain Flatness over any 36 MHz	+/- 0.25 dB max
Gain Stability, over Operating Temperature range	+/- 1.5 dB max
Input VSWR	1.5 max
In-band Spurious:	
- within +/-1 kHz off the carrier	-35 dBc max
- beyond +/-1 kHz off the carrier	-40 dBc max
Input Power Monitor Port Coupling	-7 dB typ
Mute control input	TTL
Mute / Shutdown status output	TTL
Overtemperature fault output	TTL
Baseplate Temperature output	analog voltage
Power Requirements	+10 VDC, 19 A max
Operating Temperature, baseplate:	-40 to +90 °C
Size, excluding connectors	7.6" x 3.2" x 1.5"
Weight	1.3 lbs

E & OE

Specifications Subject to Change without Notice

**ITS Proprietary Information**

[Other Models Available](#)

***Response, Innovation, Craftsmanship***

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To Order or for Technical Information

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