



## Extended Ku-Band Power Amplifier

### MODEL: PA-13A7514A50-4345

#### PERFORMANCE:

Input / Output Frequency Range:	13.75 to 14.50 GHz
Input Power Range:	-26 to +0 dBm
Input VSWR:	1.5 : 1 max.
Output VSWR:	1.5 : 1 max., by design
Linear Gain over Entire Frequency Range:	45 ± 1 dB
Gain Flatness over Entire Frequency Range:	± 1 dB max., peak-to-peak over temperature
Gain Flatness over any 400 MHz Band:	± 0.5 dB max.
Gain Flatness over any 36 MHz Band:	± 0.125 dB max.
Output Power @ 1 dB Compression:	+43 dBm min.
Output 3 <sup>rd</sup> Order Intermodulation Products:	-25 dBc max., @ 3dB total power back-off -32 dBc max., @ 6dB total power back-off
Group Delay Variation over Entire Frequency Range:	3.0 ns max., peak-to-peak

#### GENERAL:

Monitoring / Control:	100/10 BT Ethernet
Primary Power Input:	+11.5 ± 0.2 V <sub>DC</sub> , 15 A max.

#### MECHANICAL:

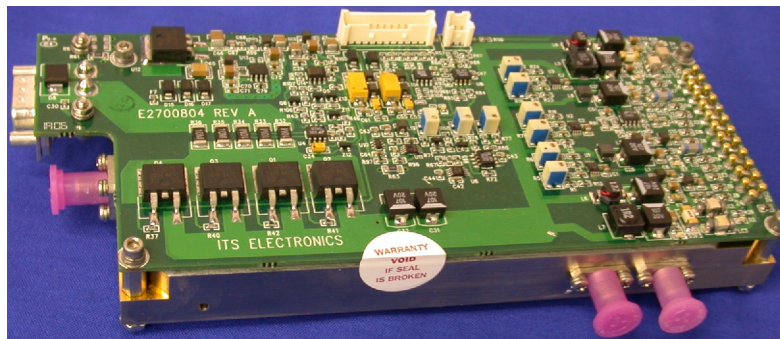
RF Input / Output Connectors:	SMA Female Jack
Monitoring / Control Connector:	RJ-45 Female
Primary Power Input Connector:	D-sub, 2W2CP
Dimensions (including connectors and power / M&C board):	7.6" × 3.75" × 1.5" max.
Weight:	1.5 lbs max.

#### ENVIRONMENTAL, OPERATIONAL:

Temperature, Mounting Surface:	-40 to +71 °C
Humidity:	Up to 100% Condensing

#### ENVIRONMENTAL, NON-OPERATIONAL:

Temperature:	-55 to +85 °C
Shock:	Operational after 10G Shock



**ITS Proprietary information**  
Specifications are Subject to Change without Notice  
Errors & Omissions Excepted

**Response, Innovation, Craftsmanship**

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