

# TECHNICAL BULLETIN

**Pulse Power Amplifier 200W 1.2 – 1.4 GHz**

**E13510-01-05**

**Rev.A**

## Features

- Voltage controlled Pulse Power Amplifier
- Based on Gallium Nitride (GaN) or LDMOS devices
- Temperature and CW protections
- Matched to 50Ω for ease of use
- Mechanical layout appropriate for modular use

## Typical Applications

- Radar
- Test Equipment

## Performances

### 1.2 ÷ 1.4 GHz PULSE POWER AMPLIFIER

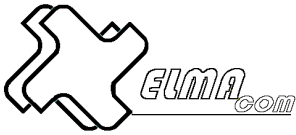
Parameter	Units	Min	Typ	Max	Remarks
Frequency range	MHz	1200		1400	Full performances
Supply Voltage	V	28		40	
Supply Volt. @200W RF out	V		36	38	
Supply Curr. @200W RF out	A		2.6	3	Measured at 15% duty cycle
Nominal RF input	dBm		+2		
Operation Mode					Pulse
Duty cycle	%			15	
Pulse width	usec			100	
Pout @ 40V supply	W	220	240		
Pout @ 28V supply	W	90		120	
Small Signal Gain	dB		40		
Port Impedance	Ω		50		
Input Return Loss	dB	10			
Output Return Loss	dB	15			
Harmonic levels	dBc	60			
Spurious	dBc	60			
Operating Temp. range	°C	0		+50	
Storage Temp. range	°C	-20		+85	
Humidity	%			95	
Shut off temperature	°C	+80			
RF input connector					Sma F
RF output connector					Sma F
Power supply connector					7W2P D-sub male
Suggested cooling					External heatsink, with forced air
Dimensions					See outline

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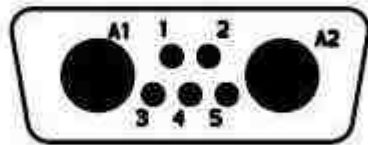
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## POWER SUPPLY CONNECTOR 7W2P

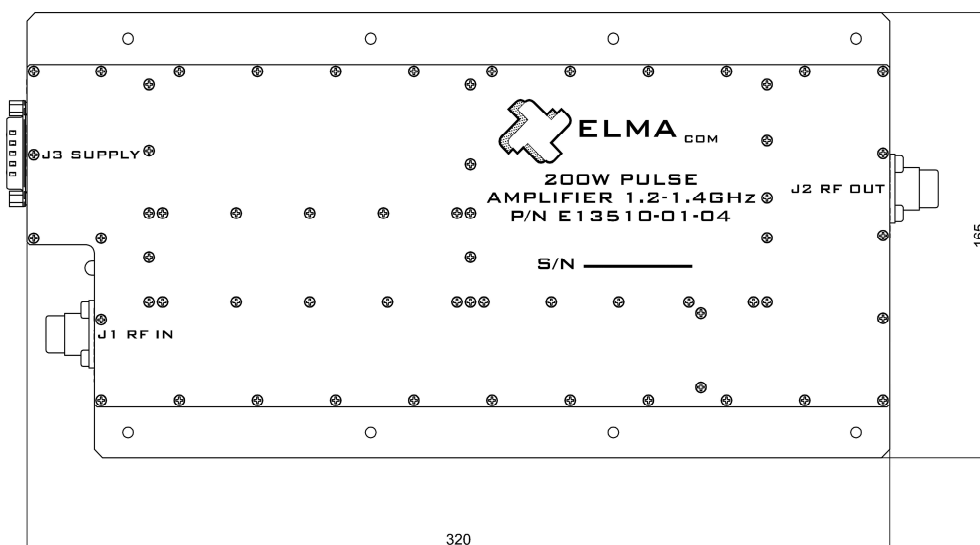
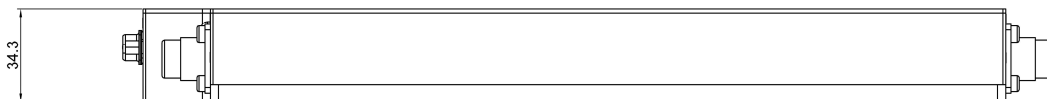


### PINs connection and Signal name

- A1 – +28/+40V
- A2 – Gnd
- 01 – *Not Connected*
- 02 – *Not Connected*
- 03 – *Not Connected*
- 04 – *Not Connected*
- 05 – *Not Connected*

## OUTLINE DRAWING

Dimensions in mm



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