

SSPA 130W 1710 - 1785 MHz

Higher Power Extended Efficiency Doherty 130W Amplifier Module

The Slipstream Design SSPA is a high power extended efficiency Doherty amplifier that operates from 1710 to 1785 MHz, suitable for high peak to average signals and pulsed CW applications. The P1dB output power is 130W over the temperature range of -20 to $+60^{\circ}\text{C}$. Standard features include reverse polarity protection, output short and open circuit protection and power supply sequencing. The Doherty amplifier operates from a $+28\text{VDC}$ supply with a supply current of 9.5A.

This amplifier is ideal for Communication Systems that require high reliability and high power in a rugged and compact module. Standard housing size is approximately 215 x 170 x 22 mm. This PA needs to be heat sunk properly to keep the base temperature to $+60^{\circ}\text{C}$ or $+85^{\circ}\text{C}$ for the extended temperature variant

The RF input is an SMA female connector and the output connector is a SMA. System monitoring and alarms accessible via a D-Sub Connector.

Contact Slipstream Design with any questions you may have on this product.



Example Slipstream Design Power Module.

Slipstream Design designs and manufactures high performance, high power CW or pulsed amplifiers for commercial, military and satellite communication customers.

Contact Us

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1710 to 1785 MHz—130W Amplifier Module

PARAMETER	SPECIFICATION
<u>Transmitter</u>	
Frequency Range	1710 to 1785 MHz
Input Power (at P3dB)	188mW [22.7 dBm]
Output Power P3dB	150W [51.8 dBm]
Output Power P1dB	130W [51.1 dBm]
Gain (Small Signal at 15W Output)	32 dB Nominal
Gain Flatness	± 1dBm
Power Added Efficiency at 150W	RF Output = 55%
Power Added Efficiency at 15W	RF Output = 38%
<u>General</u>	
I Max	150W RF output 9.5A 130W RF output 8.1A 15W RF output 1.4A
V Supply Nominal	+28 V _{DC}
Protection	VSWR and Temperature
Size	215 x 170 x 22 mm
Temperature	-20 to +60 °C -40 to +85 °C Extended option -40 to +85 °C Storage
RF Input Connector	SMA
RF Output Connector	SMA

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