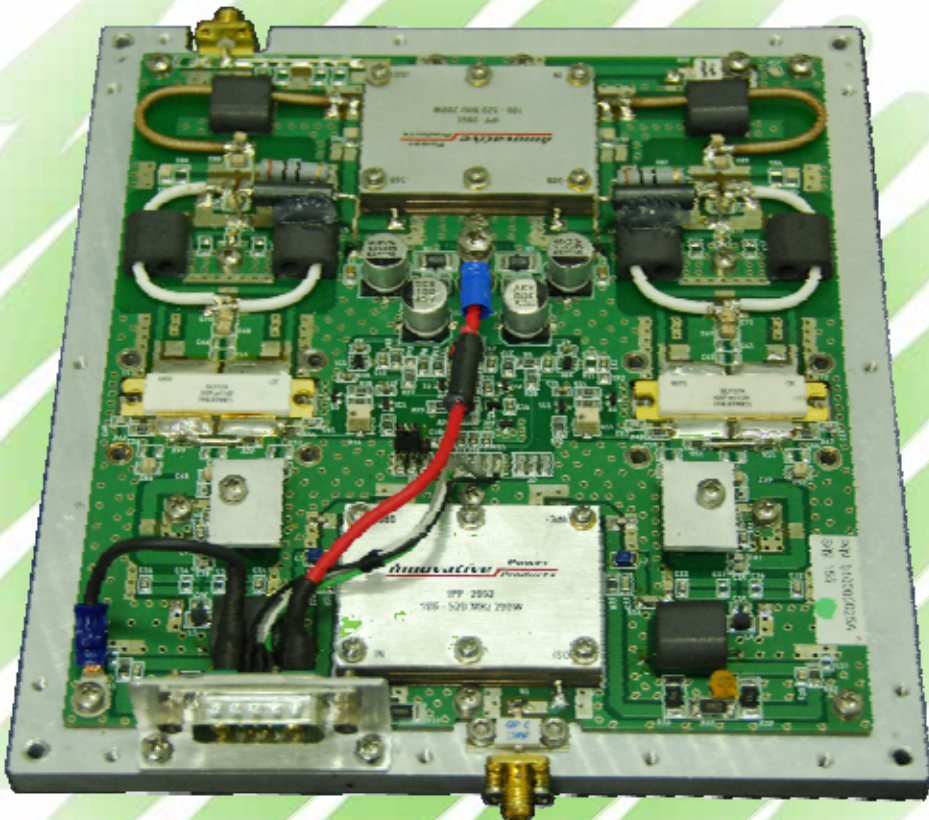


PLT09-151S



*150W 100÷500MHz
Amplifier*

AM AMPLIFIER

GENERAL INFORMATION

The 150W Carrier Power Amplifier it is a Class AB, Low Distortion, High Gain Linear amplifier module for the 100 ÷ 500MHz band.

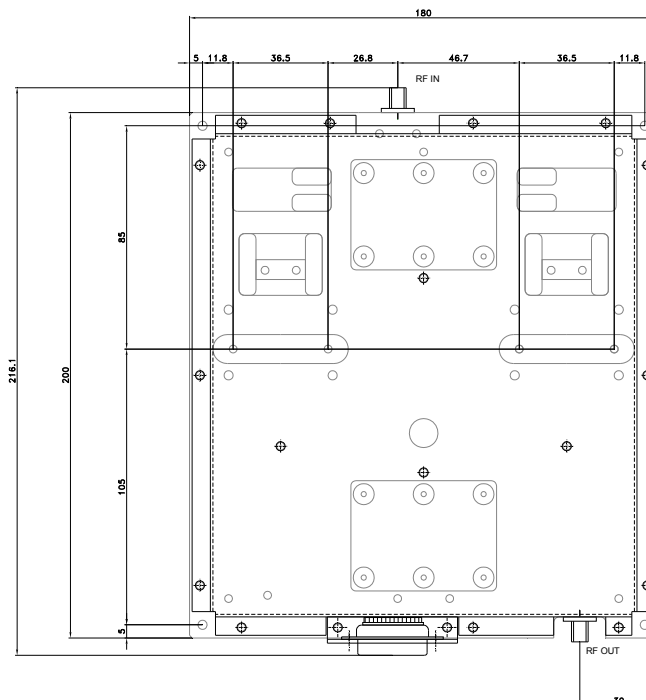
Superior performances are obtained using broadband matching techniques and the finest Gold LDMOS transistors available on the market today.

Matched for 50 Ohms input and output, with Shutdown, Current Monitoring, and Temperature alarm the Broadband Amplifier it is suitable for AM communication application.

TECHNICAL SPECIFICATIONS ($t_h = 25\text{ }^\circ\text{C}$; $50\ \Omega$ loaded; $V_{DS} = +48\text{Vdc}$)

Frequency Range:	100÷500MHz
Output Power:	>150W CW into 3:1 VSWR, all phase angles.
Power Gain:	10/13/17dB (measured at Pout 100W)
Efficiency:	>30% (at Pout =150W)
Supply Voltage:	+48Vdc
Working Class:	AB
Bias Current:	2x1,5A
2 tone IMD @ 100W:	25dBc min
Even order harmonics @ 150W:	>30dBc
Odd order harmonics @ 150W:	-25dBc
Input return loss:	<10dB
Gain flatness @ 150W:	<±1dB
Spurious signals: (non harmonic related) @ 150W	<70dBc
Operating Base plate temp:	75deg/C (90deg/C of flange) high temperature -20deg/C baseplate low temperature
Dimensions:	180x216x33,5mm
Weight:	1 kg

RF MODULE LAYOUT



AM AMPLIFIER