

# PLT13-122S



1200W ISM 41 MHz Amplifier

ISM CW AMPLIFIER



#### **GENERAL INFORMATION**

The PLT13-122S power amplifier operates at frequency of 41MHz and it is rated for continuous duty at an RF output power of 1200 Watts. It is mainly designed as final power stage and it uses a single last generation LDMOS device capable of 1200 W RF output. The module is realized with a very compact layout to maximize the number of pallet in high power amplifiers and include the bias circuits, matching network and circuits for stabilization of the operating point. The configuration of the amplifier is a "push-pull" stage coupled by means of the combining network fully integrated in the RF block. This design allows obtaining broadband high efficiency and extremely low harmonic emissions.

#### TECHNICAL SPECIFICATIONS (th = 25 °C; 50 $\Omega$ loaded; Vdc = 50V)

- Output power:
- Power Gain:
- Input power:
- Frequency range:
- Class operation:
- Drain current:
- Drain efficiency:
- Input return loss:
- Insertion phase variation:
- Gain variation:
- Harmonic emissions:
- Power supply requirement:
- Heat sink requirement:
- Operating temperature:
- Heatsink temperature:
- Dimensions:
- Weight:

#### 41MHz ±2MHz AB 29 typical > 75% (@ 1200 W CW) ≥ 20 dB ±5° max ±0,25dB max ≤ 30dBc 50Vdc ±2% ; 32A max. ≤ 0.05 °C/W -5°C to +45°C -5°C to +75°C 140 x 60 x 20mm 350 gr

> 1200 W CW @1dB c.p.

6 W (nominal)

> 22 dB (@ full power); 23dB Max.

### **RF MODULE LAYOUT**



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