



NEW DX-Patrol LDMOS 2400MHz amplifier

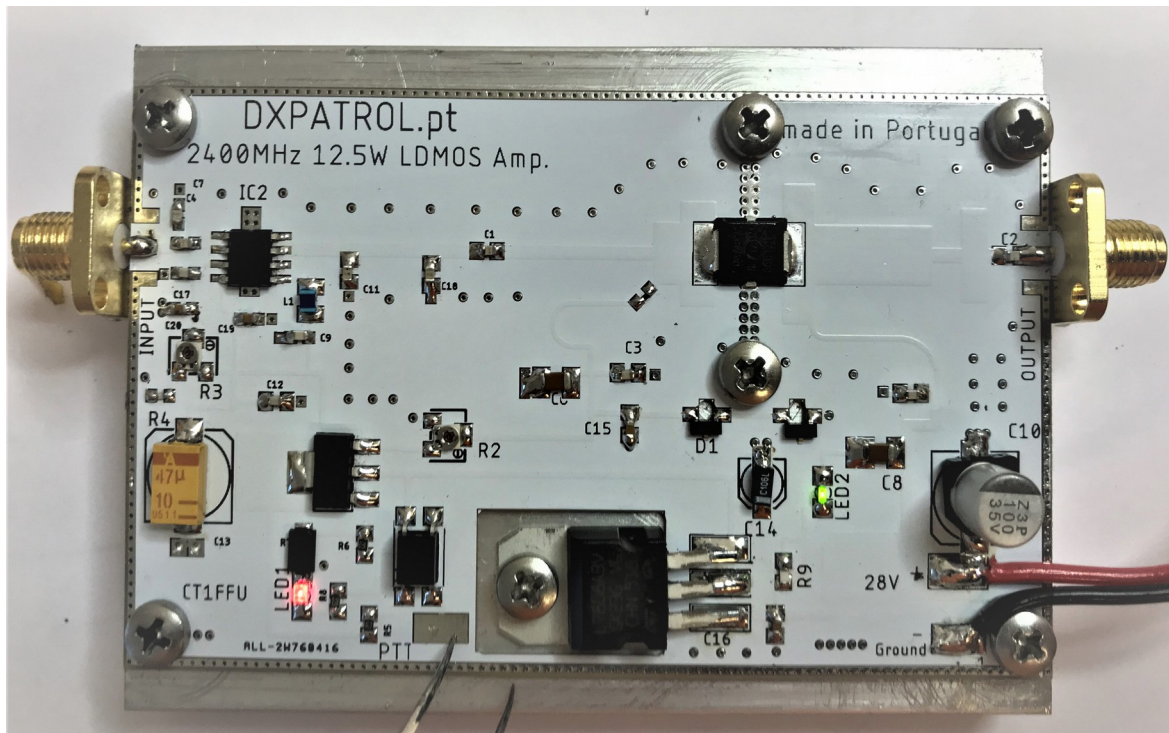


fig 1 power amplifier with heat spreader

Dxpatrol preamplifier is designed to operate by Dxpatrol UPconverter MK2 or MK3 and can load up to 12W at 2400MHz

Specifications:

- Output Power- 12W
- Input Power – 40mW (to maximum output)
- Absolute Max input power- 100mW (20dBm)
- Gain- 24dBs
- Voltage- 28V DC
- Current Stand by- 0,01 A
- Current TX (PTT ON) - 0,6A
- Current Full Power – 1,3 A
- Total input Power – 36.4 Watt
- Efficiency- 55%
- TX mode- PTT to ground (by optocoupler)
- Connectors- SMA
- Spreader size- 60mm X 87mm
- Drill holes – 3mm (M3)

SWR- Input 1:1.3 @ 50 Ohms
Max VSWR output – 5:1
Operating Temperature- 40°C to 80°C
Max Temperature- 150° C
LDMOS- MHT1008NT1
Driver- RF2126

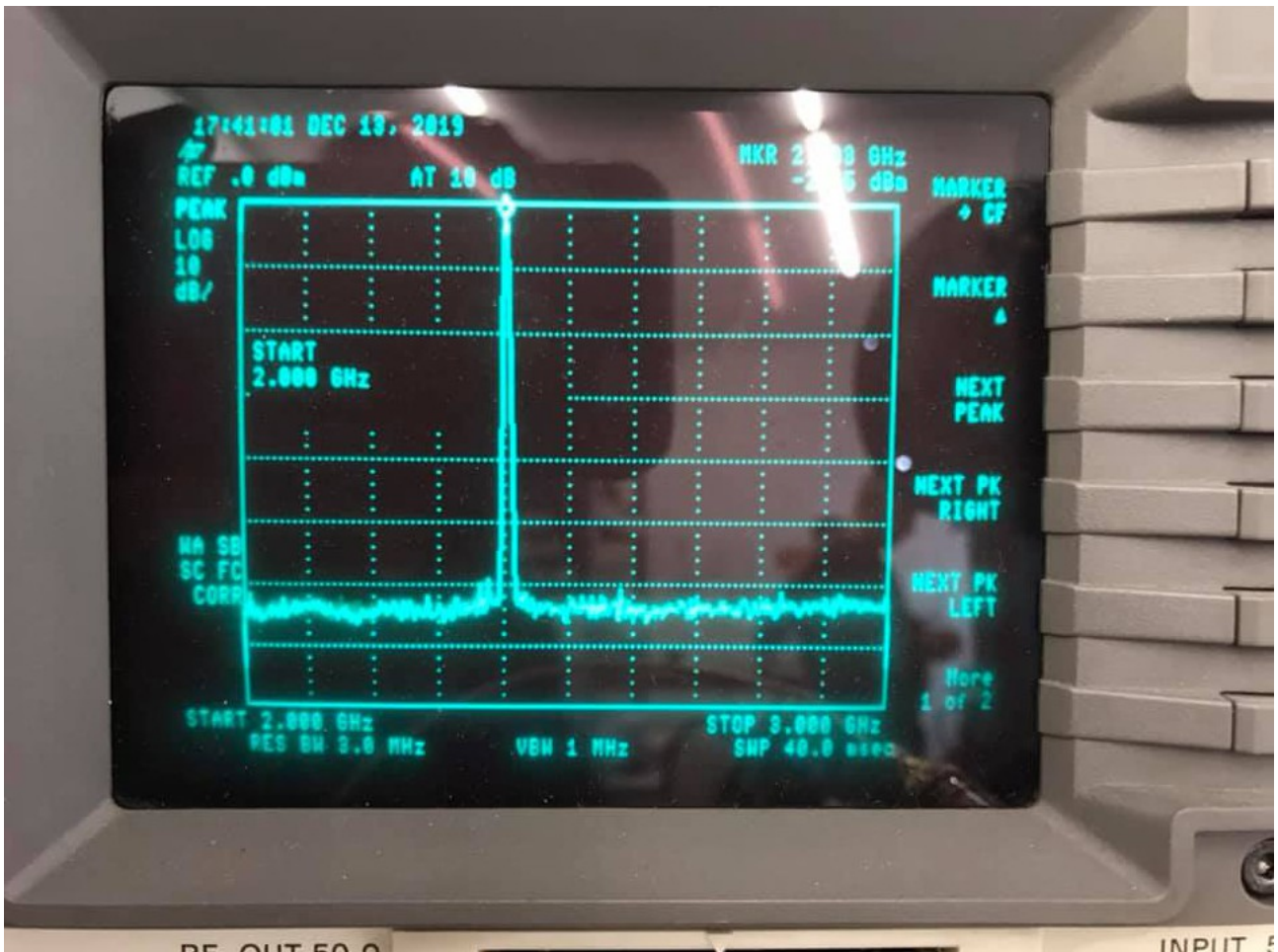


fig 2 spectrum analyser span photo amplified signal on a 50 Ohms load

Dxpatrol Amplifier designed by CT1FFU for Dxpatrol.
A small, rugged, powerfull and clear amplifier dedicated to UHF DXers or QO-100 operators.

Connections suggestion:

