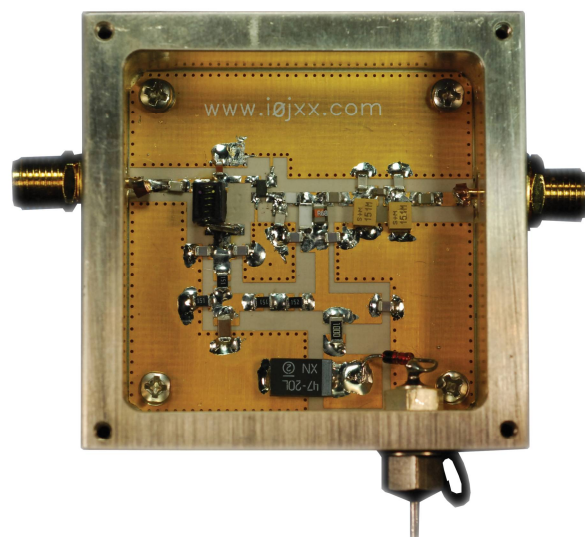




LNA144JXX

August 2010

VERY LOW NOISE PREAMPLIFIER ON 144 MHz

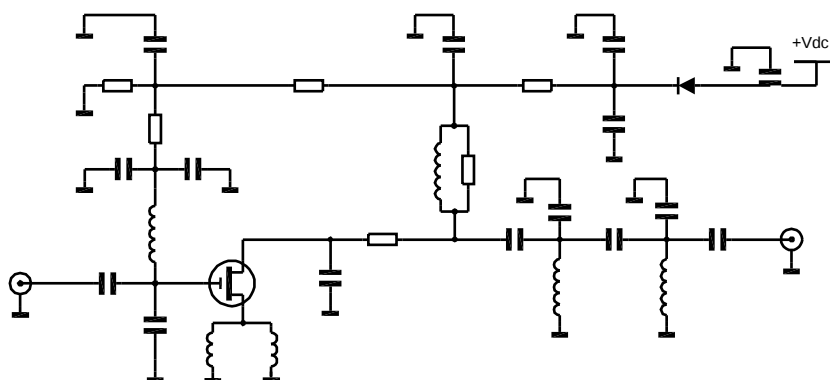


Dimension: (L x W x H) 65 x 65 x 23 mm (connectors included) - box size 50 x 50 x 23 mm

It's very low noise and high gain, ideal for EME or tropo DX. Each preamplifier is tested on laboratory with Noise Figure Analyzer HP N8973 and Noise Source HP 346C.

For Each Low Noise preamplifier is issued its certificate of inspection numbered.

- Dispositive ATF54143
- Gain >24 dB
- Noise Figure <0.3 dB
- Connectors SMA female
- Voltage 10 ÷ 14 Vdc
- Current 50 mA ± 5 mA
- Silvered box



The bandwidth of 144MHz is very close to services using high power, see FM broadcasting, TV and various civic services the third band. For this reason, the active device was placed between two selective circuits of which the first low-loss not degrade the "noise figure".

We avoided using inductors wound manually to have a reproducibility of characteristics.

The component values were optimized with appropriate simulation programs to obtain a high stability of operation, even with antennas that show a poor fit (worse -13dB) and furthermore, was not burdened with the circuit components that can be a source of possible failures in time (active biasing circuits and more).

It was used a printed circuit, low loss, finished in gold and silver finish with a container.

This device improves the contact resistance in the presence of moisture and formation of oxides: the silver oxide is a good conductor.

The result is a preamplifier with "Out IP3" very high (about 40dBm), low NF (EME traffic), stable, with a gain that will not degrade the noise figure with long runs on coaxial cable.

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