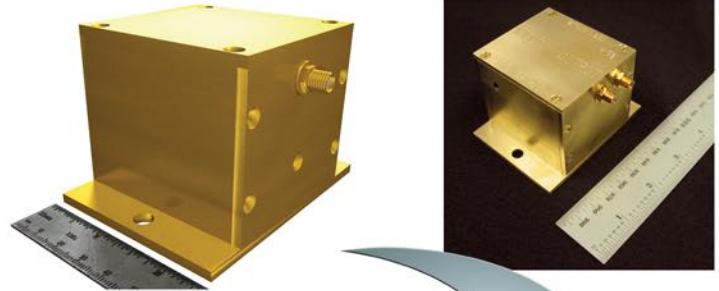


# MTECH Laboratories LNPA Series Low-Noise MRI RF Preamplifiers

The LNPA series are ultra-low-noise, low input impedance RF preamplifiers covering a range of MRI frequencies. They are an ideal choice for multiple RF coil arrays providing decoupling between channels. Multiple RF coil arrays are becoming a necessity for high-end MRI scanners, providing speed and performance advantages. The exceptionally low noise figures of the LNPA series provide ultra sensitivity for spectroscopy applications and low-loss cryogenic RF probes. The LNPA123M-001 is a 123 MHz preamplifier targeted for 3T proton imaging. Typical specifications are given below.



## PRELIMINARY SPECIFICATIONS LNPA123M-003:

**FREQUENCY:** 123 MHz

**NOISE FIGURE:** 0.3 dB

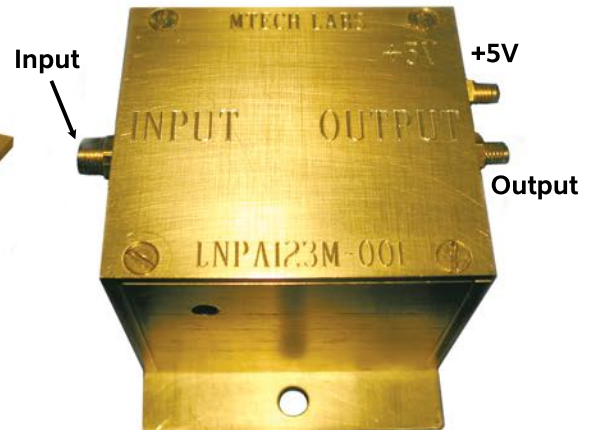
**INPUT IMPEDANCE:**  $< 2 \Omega$

**GAIN:** 20 dB min.

**DIMENSIONS:** 2.45" x 3.2" x 2.2"

**CONNECTORS:** SMA

**POWER:** 50 mA at 5 V(DC)



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