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 Ω
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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