

## Operational Description

M/A-COM's MD59-0049 integrated downconverter combines a low noise amplifier, RF amplifier, mixer, IF amplifier, and LO buffer in a miniature 4 millimeter plastic MLF package that has an exposed backside for improved high frequency grounding.

M/A-COM designed the MD59-0049 for applications requiring high linearity wide dynamic range and low power consumption. By application of a suitable control voltage to pin 13, the linearity of the device can be controlled in real time to keep the current as low as possible.

M/A-COM fabricates the MD59-0049 using a 0.5 micron low noise E/D GaAs MESFET process. The process features full passivation for increased performance and reliability.