

**PRELIMINARY**



Drivers designed to actuate MEMS switches, with the fastest bounce-free switching attainable.

Versions available include :

- Up to 10 channels/unit
- Onboard Voltage-Boosting option (convert 5V to 90V)
- Hermetic options
- Commercial options
- Decoded or Independent logic

When MEMS switches are driven by fast drive pulses, there can be many wasted microseconds while the switch bounce settles to a stable  $\%on$  condition. This bounce time can be minimized by use of an optimally profiled voltage slew rate applied to the device, with very fast risetimes and falltimes combined with an optimized  $\%soft\ landing$  profile for the MEMS actuator.

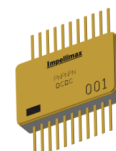
MEMS drivers incorporating this high-speed switching profile can easily be configured to your system needs. Some versions to consider :

**9989** . Lowest cost driver, small, encapsulated FR-4, can be reflow soldered, 2 channel.

**9785** . 6 channel hybrid, on-board +90V generation from +5V, Mil temp and screening available

**5603** . FR-4, 8 channel decoded with on-board +90V generation from +5V supply.

**9942** . 2 channel hybrid, full Military temp range and screening available



Individual data sheets are available for each of these versions.

Impellimax Part #	Size	Enviro	Channels	Features
9989	FR-4 Module, 0.4 X 0.4 X 0.2	Commercial	2 independent	Micro size, Low cost
9785	Hybrid, 1 inch sq 64 leads	Commercial Or Military	6 independent	Rep-rate protection, Undervoltage lockout
5603	FR-4 board, 2.5 inch by 4 inch	Commercial	8 decoded	On-board +90V generation, Independent logic available
9942	Hybrid	Comm or Military	2 independent	Line receiver or mode control option, small size

Contact the factory for additional details and many available customization options.