



**MODULAR DEVICES, INC.**

ONE RONED ROAD • BROOKHAVEN R&D PLAZA • SHIRLEY, NY 11967 (631) 345-3100

## **For Immediate Release:**

Modular Devices, Inc. (MDI) has introduced the model 5533 family, which are three section, radiation hardened Solid State Switches constructed in a hermetic hybrid package. The 5533 has three isolated control ports which drive three isolated switch sections. The module is powered from a bias voltage in the range of 4.75VDC to 35 VDC.

The 5533 is rated to perform after radiation exposure to 100 kRads of total ionizing dose. It is intended for use in power switching and control in high radiation environment applications such as spacecraft and satellites. Other applications are seen in particle physics instrumentation.

A variety of standard switch ratings are available. This includes 55, 100, 200 and 500 VDC. Output current is rated at a maximum of 20 amperes or less, depending on the switch voltage rating.

The 5533 switch sections have a well controlled rise and fall time that has a negligible variation over temperature and radiation. This reduces EMI and inrush currents in critical aerospace applications. Also, the individual 5533 switch sections can be paralleled for higher output currents or implemented for normally open/normally closed operation.

A wide variety of package options are available. The minimum module dimensions are 1.35" by 2.2" by 0.495". The weight is 60 grams.

The challenge to produce reasonably priced radiation hardened solid state switches is overcome by MDI's proprietary radiation hardened circuit design. US and International patents are pending. Key circuitry used within these solid state switch modules was recently tested at Brookhaven National Laboratories and were found to be radiation resistant beyond 200kRads.

The price of an engineering grade 5533 module is \$1200 each in 100 piece quantity. Delivery is stock to 150 days ARO. MDI also fabricates assemblies of modules to customer specifications.

\* \* \* \* \*

For further information, contact Ms. Chris Merl at 631-345-3100