

Innovations

by MEDER electronic

E1/07

SURFACE MOUNT RELAYS

MEDER offers a full line of Surface Mount RF reed relays ideally suited for instrumentation, Automatic Test Equipment (ATE) and high frequency RF requirements. These single and multi-pole relays are excellent for applications requiring high density switching matrices and minimal space.



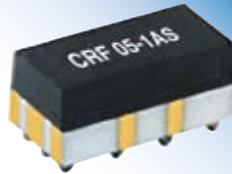
CRR

Our CR SMD reed relay series packaged in an over molded ceramic base features our CRR low speed series and our high speed, high frequency CRF Series.

The CRR Series

- The world's smallest reed relay, the CR series, measures only 8,6mm x 4,4mm x 3,4mm.
- A magnetic shield is integrated in the design virtually eliminating any potential magnetic coupling in tight relay matrices.
- Insulation resistance between coil and contact is typically 10^{14} Ohm.
- Suitable for operating environments up to 125°C.
- Thermal offset voltages typically less than 1 microvolt.
- Capable of switching into the billions of operations at low level.
- SMD soldering using a ball grid array is optional (BGA).

CRR Applications: measurement and control, medical instrumentation, telecommunication, micro electronics and anywhere where minimal space and surface mounting is required.

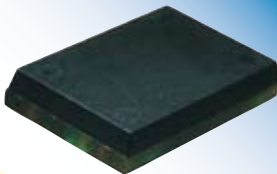


CRF

The CRF Series

- The CRF series has all the features presented above in the CRR series in addition to the following:
 - Ability to pass high frequencies up to 7 GHz.
 - Capable of switching fast digital pulses as low as 40 pico seconds.

Applications: ATE wafer testers, integrated circuit testers (digital and analog) and ASIC testers, ATE performance boards, fast oscilloscopes, antenna switching, and PDAs.



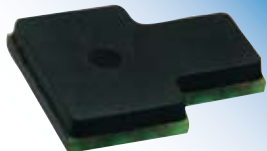
RM05-4A

Low Profile RF Relay Modules for ATE

The RM05-4A and RM05-6A

- The SMD Module RM05-4A is composed of 4 individually controlled reed relays in an over molded ultra small package. The RM05-6A has 6 individually controlled reed relays.
- Connections are made using a BGA matrix.
- The relay matrices are designed having short signal paths making them ideally suited for RF signals up to 6 GHz.
- Internal integrated magnetic shields are standard preventing any magnetic interaction between individual relays and adjacent modules.
- The RM05-4A has two standard matrices: 4 inputs with 4 outputs, and 4 inputs with two outputs.
- The RM05-6A has 4 inputs with 1 output.

Applications: ATE wafer testers, integrated circuit testers (digital and analog) and ASIC testers, ATE performance boards, fast oscilloscopes, antenna switching and PDAs.



RM05-6A