

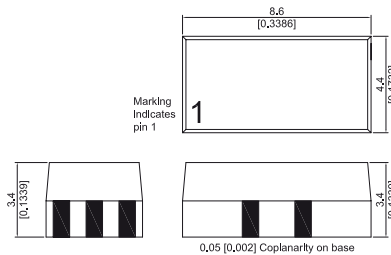
- Ceramic / thermoset molded package
- Patent pending
- Smallest in the industry
- No lead frame surface mount design eliminates skewing of leads and coplanarity issues
- Minimum path length for RF
- Up to 7 GHz switching frequencies
- Ability to switch fast pulses with rise times of 40 picoseconds or less
- Available with BGA
- Internal magnetic shield standard
- Very low profile
- Gold plated leads for high conductivity RF path
- Low thermal offset typical 1 μV
- TCE matching of all internal components
- Insulation resistance typical 1014 ohms
- 3 Volt option available

The MEDER CRF Reed Relay Series is a low-profile device made with a ceramic case that exactly matches the thermal coefficient of expansion of the Reed Switch glass and the reed lead to eliminate any potential packaging stress. Capable of switching up to 7 GHz with <40 ps rise times for digital operations, this leadless 50 Ohm reed relay is the smallest in the industry and switches into the billions of operations.

APPLICATIONS

- Test and measurement
- Medical Equipment
- Telecommunications
- High frequency applications

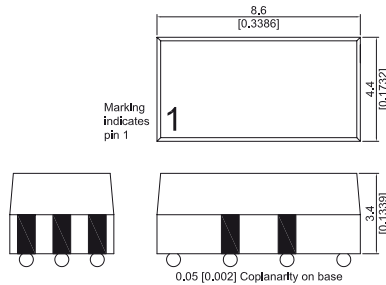
*All dimensions in mm (inch)

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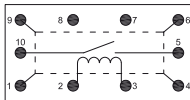
7 GHz High Frequency Reed Relay for 50 Ω Impedance

DIMENSIONS (with BGA)

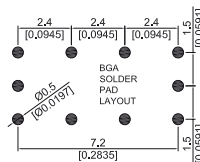
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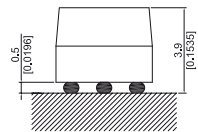
PIN OUT (Top View)



PAD / PCB LAYOUT (Bottom View)



POST REFLOW



Höhe: max.

ORDER INFORMATION

Part Number Example

CRF05 - 1AS

05 is the nominal voltage

1A is the contact form

S is the solder ball option

Series	Nominal Voltage	Contact Form	Option
CRF	05-	1A	X
Options			S*
* Solder Ball Option (non-BGA part number is CRF05-1A)			

COIL DATA

Contact Form	Switch Model	Coil Voltage		Coil Resistance			Pull-In Voltage	Drop-Out Voltage	Nominal coil Power
All Data at 20 °C *		VDC		Ω			VDC	VDC	mW
		Nom.	Max.	Min.	Typ.	Max.	Max.	Min.	Typ.
1A	80	5	7.5	135	150	165	3.75	0.75	167
1A	80	3	5	63	70	77	2.25	0.45	129
* the pull-in / drop-out voltages and coil resistance will change at the rate 0,4% per °C									