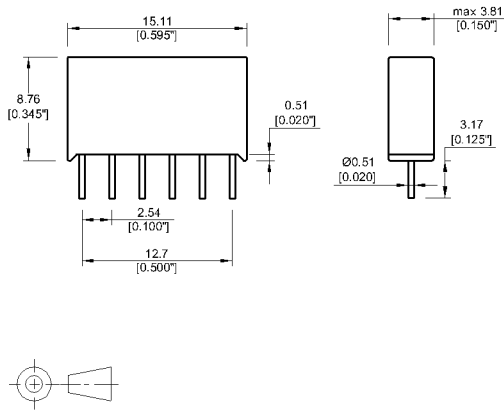


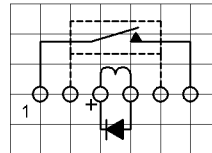
**DIMENSIONS (mm)**

Unspecified Tolerances +/- 0.127mm



**LAYOUT 79D**

Pitch 2.54mm [0.100"] / Top View



**MARKING**

Top View

MEDER ww/yy  
 1 MS05-1A87-79D

| Coil Data at 20 °C | Conditions | Min | Typ | Max | Unit |
|--------------------|------------|-----|-----|-----|------|
| Coil resistance    |            | 252 | 280 | 308 | Ohm  |
| Coil voltage       |            |     | 5   |     | VDC  |
| Rated power        |            |     | 89  |     | mW   |
| Pull-In voltage    |            |     |     | 3.5 | VDC  |
| Drop-Out voltage   |            | 0.5 |     |     | VDC  |

| RF Characteristics       | Conditions | Min                    | Typ | Max | Unit |
|--------------------------|------------|------------------------|-----|-----|------|
| Characteristic Impedence |            |                        | 50  |     | Ohm  |
| S-Parameters             |            | Available upon request |     |     |      |

| Contact data 87            | Conditions  | Min | Typ | Max | Unit |
|----------------------------|---|-----|-----|-----|------|
| Contact rating             | Any DC combination of V & A not to exceed their individual max.'s |     |     | 10  | W    |
| Switching voltage          | DC or Peak AC   |     |     | 200 | V    |
| Switching current          | DC or Peak AC   |     |     | 0.4 | A    |
| Carry current              | DC or Peak AC   |     |     | 1   | A    |
| Contact resistance static  | Measured with 40% overdrive Start Value                           |     |     | 150 | mOhm |
| Contact resistance dynamic | Maximum value 1,5 ms after excitation Start Value                 |     |     | 200 | mOhm |
| Insulation resistance      | RH <45 %, 100V - to all points                                    | 1   |     |     | TOhm |
| Breakdown voltage          | according to IEC 255-5  | 230 |     |     | VDC  |
| Operate time incl. bounce  | measured with nominal voltage                                     |     |     | 0.5 | ms   |
| Release time               | measured with no diode suppression                                |     |     | 0.1 | ms   |
| Capacitance                | @ 10 kHz across open switch                                       |     | 0.2 |     | pF   |

| Special Product Data           | Conditions             | Min                      | Typ | Max | Unit  |
|--------------------------------|------------------------|--------------------------|-----|-----|-------|
| Isolation voltage Coil/Contact | according to IEC 255-5 | 1.5                      |     |     | kV DC |
| Connection pins                |                        | FeNi-alloy tin plated    |     |     |       |
| Magnetic Shield                |                        | Internal mu-metal shield |     |     |       |

| Environmental data | Conditions                  | Min | Typ | Max | Unit |
|--------------------|-----------------------------|-----|-----|-----|------|
| Shock              | 1/2 sine wave duration 11ms |     |     | 50  | g    |
| Vibration          | from 10 - 2000 Hz           |     |     | 20  | g    |



*Products for tomorrow...*

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Item No.:  
**4205087179**  
Item:  
**MS05-1A87-79D**

| Environmental data    | Conditions                 | Min | Typ | Max          | Unit |
|-----------------------|----------------------------|-----|-----|--------------|------|
| Operating temperature |                            | -20 |     | 70           | °C   |
| Storage temperature   |                            | -20 |     | 95           | °C   |
| Soldering temperature | wave soldering max. 5 sec. |     |     |              |      |
| Washability           |                            |     |     | fully sealed |      |

Modifications in the sense of technical progress are reserved

Designed at: 01/13/09    Designed by: KMUELLER  
Last Change at:            Last Change by:

Approval at: 01/16/09    Approval by: TLANE  
Approval at:                Approval by:

Rev. No.: 01