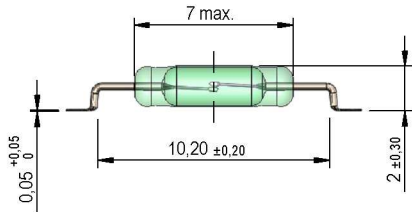


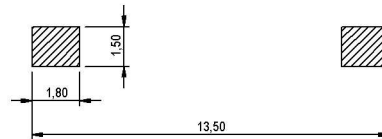
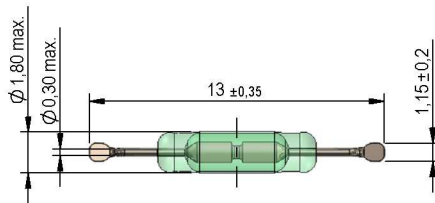
**Dimensions mm[inch]**  
tolerances according to DIN ISO 2768-m  
Toleranzen gem. DIN ISO 2768-m



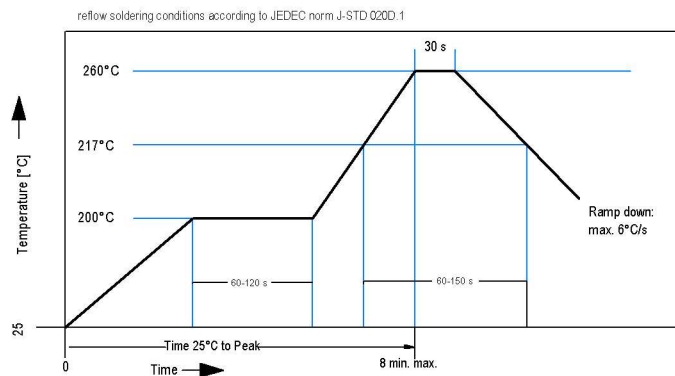
**Isometric**  
Scale 2:1  
Maßstab 2:1



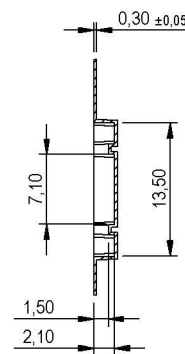
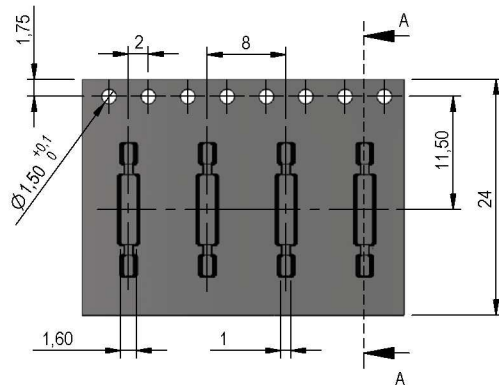
**Recommended PCB Pad Layout**



**Solder Reflow Profile**



**Packaging**  
(4001350017)



A-A (1.3 : 1)



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Item No.:  
**9231803540**  
 Item:  
**MK23-80-G-2**

| Magnetic properties                   | Conditions  | Min    | Typ | Max | Unit |
|---------------------------------------|---|--------|-----|-----|------|
| Pull-In excitation (Reference value)  | Reed switch unmodified<br>measured in coil- "define operation"  | 35     |     | 40  | AT   |
| Test-Coil                             | Reed switch unmodified  | KMS-01 |     |     |      |
| Pull-In excitation (modified contact) | Reed switch modified<br>phys. conditioned tolerance of +/- 1 AT | 40     |     | 48  | AT   |
| Test-Coil                             | Reed switch modified  | KMS-22 |     |     |      |
| Pull-In in milliTesla (modified conta | MS150 -<br>phys. caused tolerance +/- 0,1mT                     | 3,4    |     | 3,6 | mT   |

| Contact data 80            | Conditions   | Min     | Typ | Max | Unit |
|----------------------------|--|---------|-----|-----|------|
| Contact-No.                |  | 80      |     |     |      |
| Contact-form               |  | A       |     |     |      |
| Contact-material           |  | Rhodium |     |     |      |
| Contact-rating             | Any DC combination of V & A<br>not to exceed their individual max.'s |         |     | 10  | W    |
| Switching voltage          | DC or Peak AC  |         |     | 170 | V    |
| Switching current          | DC or Peak AC  |         |     | 0.5 | A    |
| Carry current              | DC or Peak AC  |         |     | 0.5 | A    |
| Contact resistance static  | Measured with 40% overdrive<br>Start Value                           |         |     | 200 | mOhm |
| Contact resistance dynamic | Maximum value 1,5 ms after excitation<br>Start Value                 |         |     | 250 | mOhm |
| Insulation resistance      | RH <45 %, 100 V test voltage   | 1       |     |     | GOhm |
| Breakdown voltage          | according to IEC 255-5   | 210     |     |     | VDC  |
| Operate time incl. bounce  | measured with 40% overdrive  |         |     | 0.6 | ms   |
| Release time               | measured with no coil excitation                                     |         |     | 0.1 | ms   |
| Capacity                   |  |         | 0,2 |     | pF   |

| Environmental data    | Conditions                  | Min | Typ | Max | Unit |
|-----------------------|-----------------------------|-----|-----|-----|------|
| Shock                 | 1/2 sine wave duration 11ms |     |     | 50  | g    |
| Vibration             | from 10 - 2000 Hz           |     |     | 20  | g    |
| Ambient temperature   |                             | -40 |     | 130 | °C   |
| Storage temperature   |                             | -55 |     | 130 | °C   |
| Soldering temperature | wave soldering max. 5 sec.  |     |     | 260 | °C   |

Modifications in the sense of technical progress are reserved

Designed at: 12/11/09 Designed by: AKELLER  
 Last Change at: 09/14/16 Last Change by: WKOVACS

Approval at: 12/11/09 Approval by: RKAMP  
 Approval at: 09/27/16 Approval by: HSINGH

Rev. No.: 03