

## MICON 5, SMT low, 3 ± 0.6 N, 1 NO

LBL\_NRFND



### Description

MICON 5 tactile switches offer extreme switching reliability, with a very small space requirement. They can be arranged individually, in rows or as key blocks. For use beneath overlays, we recommend combining the MICON 5 tactile switches with plungers. Here are the properties at a glance:

- › Suitable for the most important soldering techniques
- › Soldering bath for THT versions
- › Reflow soldering for SMT versions
- › Vapor phase soldering for SMT versions
- › Manual soldering
- › Processing of the SMT design with SMT automatic assembly machines
- › IMDS entry

MICON 5, SMT low with a height of only 3.45 mm Processing information: Special pipette (Siemens Siplace order no. 348514-02) Mounting with revolver head. Suggestion for stencil printing: 150 µm stencil with 10% pad reduction on surface



### technical data

#### › general

|  |   |
|--|---|
| Operating temperature, min.                                | -40 °C                                  |
| Operating temperature, max.                                | 90 °C                                   |
| Storage temperature, min.                                  | -40 °C                                  |
| Storage temperature, max.                                  | 90 °C                                   |
| illuminated  | No                                      |
| Soldering  | Reflow                                  |
| Solder heat resistance according to standard               | DIN EN 60068-2-58<br>DIN EN 61760-1     |
| Packaging  | Blister                                 |
| Packaging unit   | 2,100 pcs.                              |
| net weight   | 0.3 g                                   |
| Operating life   | 1,000,000 cycles                        |
| B10  | 1,300,000 cycles                        |
| MSL Moisture Sensitivity Level                             | 1                                       |
| Shock resistance according to standard IEC 60068-2-27      | 100 g at 6 ms amplitude semi-sinusoidal |
| oscillation resistance according to standard IEC 60068-2-6 | 5 g at 10...500 Hz                      |
| Minimum order quantity (MOQ)                               | 2,100 pcs.                              |
| RoHS compliant   | Yes                                     |
| REACH compliant  | Yes                                     |
| country of origin  | DE                                      |

#### direct links

- › RAFI eCatalog

### > mounting diameters

|                           |               |
|---------------------------|---------------|
| Outside dimension, length | 6.4 ± 0.1 mm  |
| Outside dimension, width  | 5.1 ± 0.1 mm  |
| Installation height       | 3.45 ± 0.1 mm |
| Grid, min.                | 6 x 7.8 mm    |

### > mechanical data

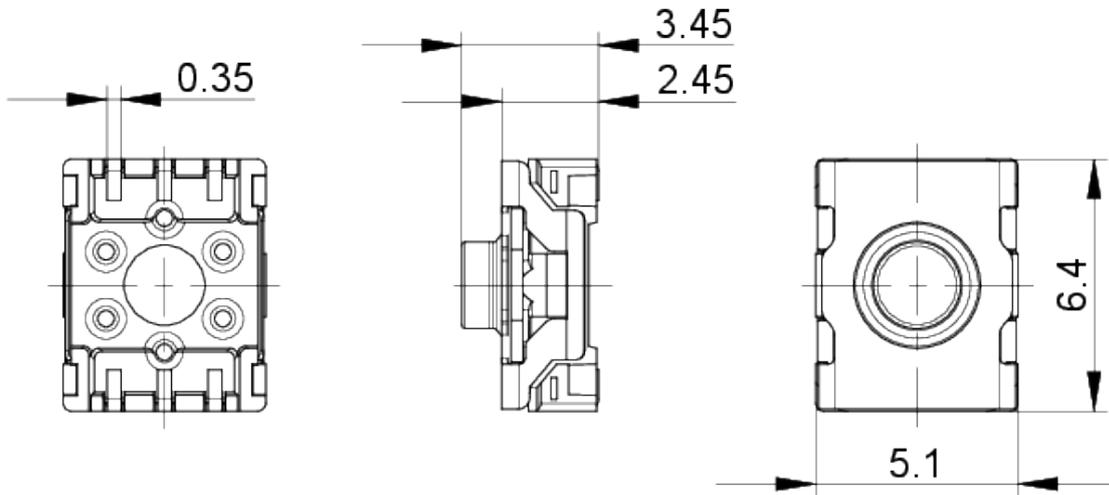
|                       |  |
|-----------------------|--|
| Actuation function    | momentary contact function                             |
| Operating force, max. | 4 N  |
| Operating force, min. | 3 ± 0.6 N  |
| Switching travel      | 0.6 ± 0.15 mm  |
| Contact function      | 1 NO   |
| Contact system        | Snap-action contact<br>SPST - Single Pole Single Throw |
| Contact material      | Gold   |
| Solderability         | Yes  |
| Terminal on the rear  | SMT  |

### > electrical data

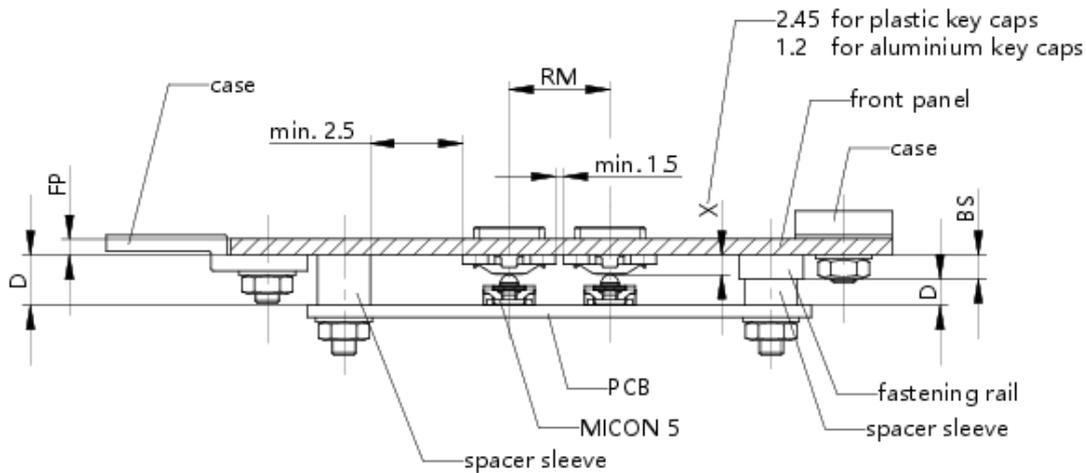
|                     |           |
|---------------------|-----------|
| Rated voltage, min. | 0.02 V    |
| Rated voltage, max. | 35 V      |
| Dielectric strength | 250 V     |
| Rated current, min. | 0.00001 A |
| Rated current, max. | 0.1 A     |
| Rated power, max.   | 1 W       |

**drawings**

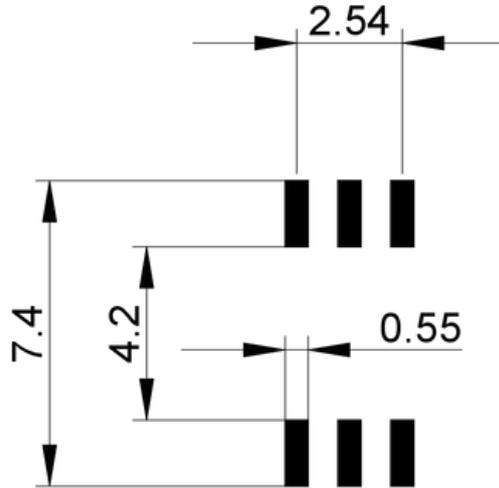
**Dimensioned drawing**



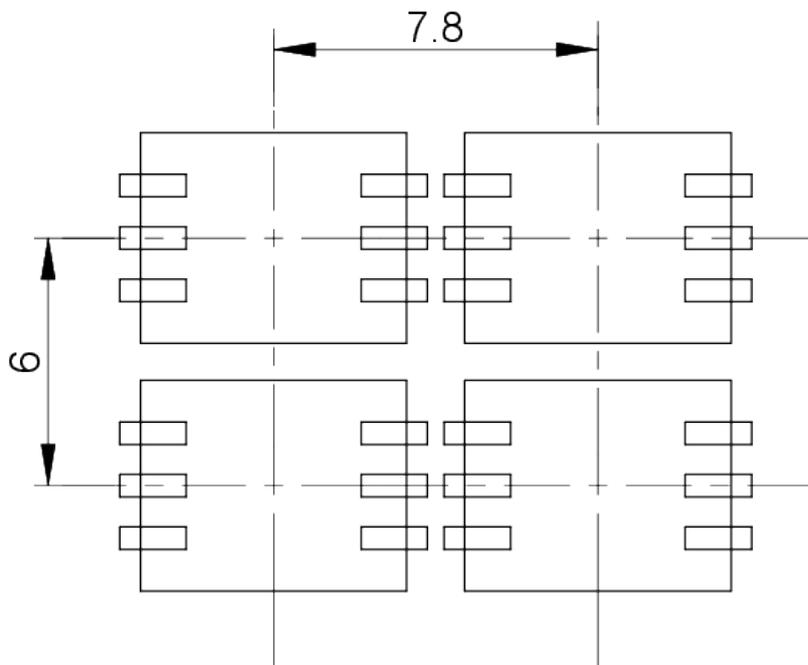
**System drawing**



PCB drawing

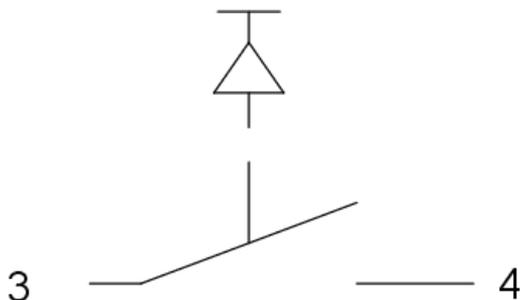
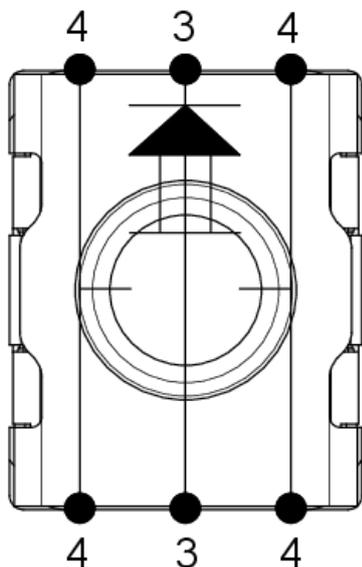


PCB drawing



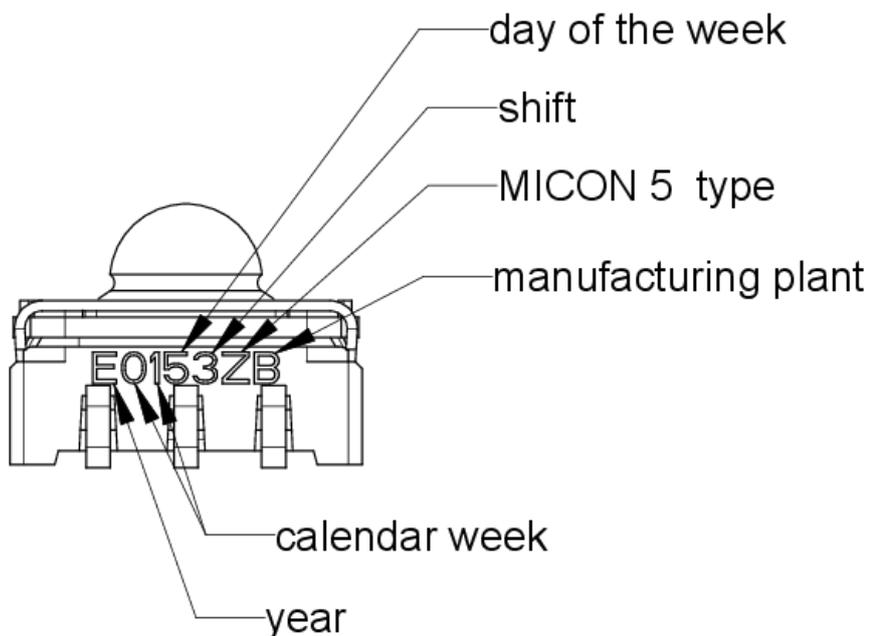
MICON 5 SMT

**Schematic diagram**

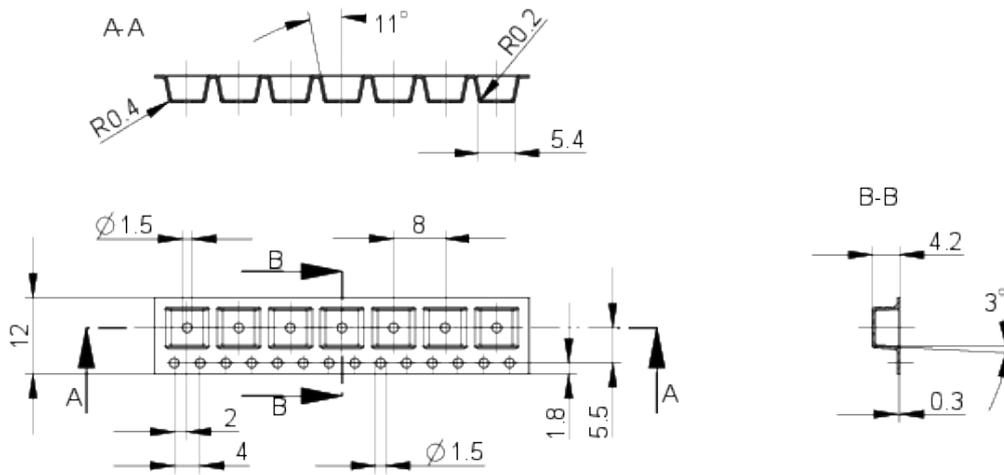


Circuit symbol according to IEC 617

**Product labeling drawing**



**Packaging drawing**

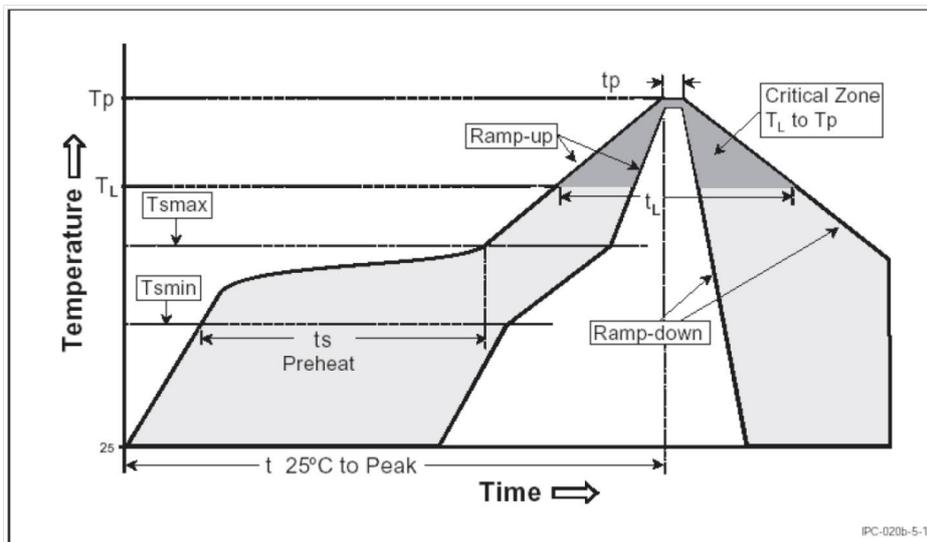


mounting

RAFI soldering profile for ROHS compliant reflow components



Publication date: October 7, 2021



| Parameter                                     | RAFI values         |
|---|---------------------|
| Gradient (TL to TP)                           | max. 3°C / s        |
| <b>Preheating zone</b>                        |                     |
| Minimum temperature (Tsmmin)                  | 150°C               |
| Maximum temperature (Tsmmax)                  | 200°C               |
| Time (from min. to max.) (ts)                 | 60 - 120 s          |
| Gradient (Tsmmax to TL)                       | max. 3°C / s        |
| Time over melting temperature (TL) time (tL)  | 217°C<br>60 - 150 s |
| Peak temperature (TP)                         | max. 260°C (+0°C)   |
| Time within peak temperature - 5°C (tp)       | 20-40 s             |
| Gradient ramp down                            | max. 6°C / s        |
| Time difference from 25°C to peak temperature | max. 8 minutes      |

The reflow soldering profile is based on the definition of Jecdec J-STD-020D.

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