

# 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 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 restistance 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**

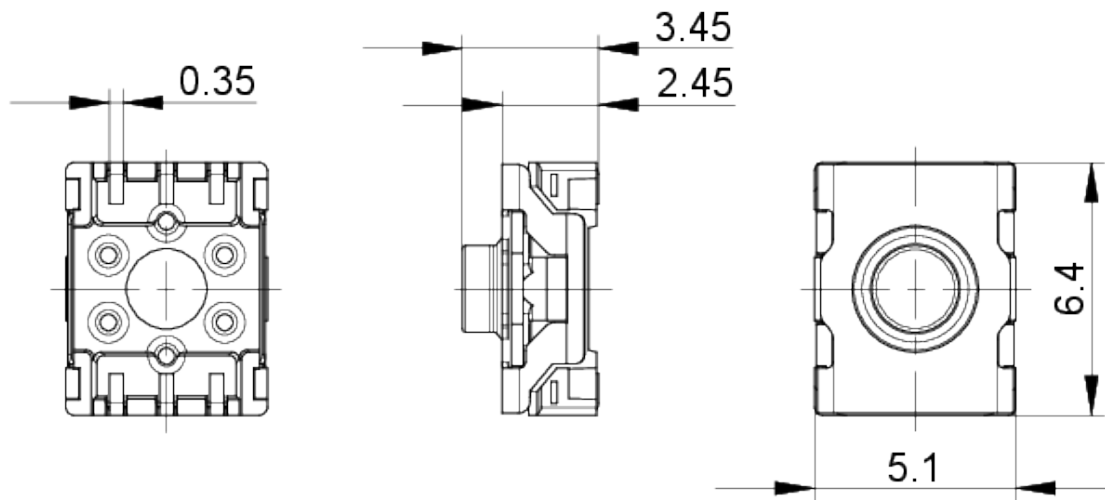
Actuation function	momentary contact function
Operating force, max.	4 N
Operating force, min.	3 ± 0.6 N
Switching travel	0.6 ± 0.15 mm
Contact function	1 NO
Contact system	Snap-action contact SPST - Single Pole Single Throw
Contact material	Gold
Solderability	Yes
Terminal on the rear	SMT

> **electrical data**

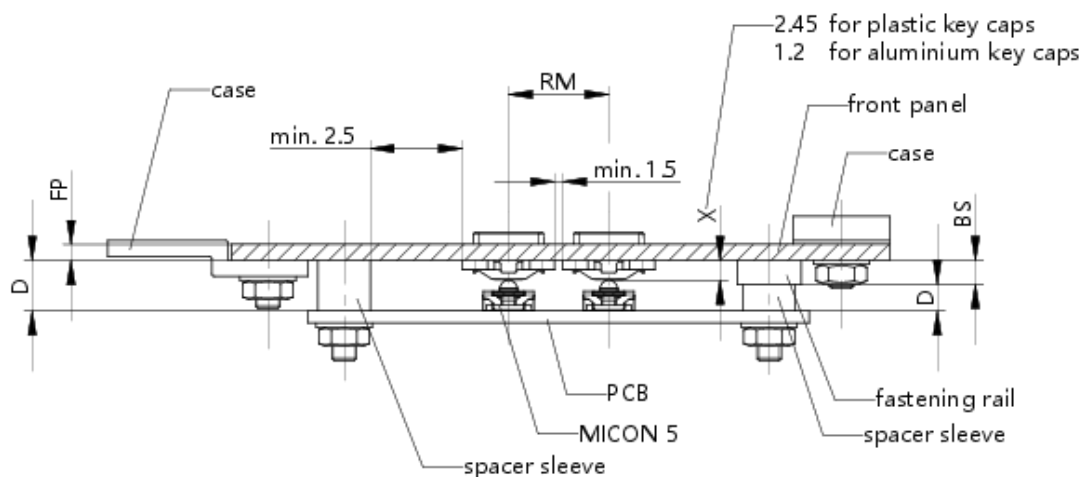
Rated voltage, min.	0.02 V
Rated voltage, max.	35 V
Dielectric strength	250 V
Rated current, min.	0.00001 A
Rated current, max.	0.1 A
Rated power, max.	1 W

## drawings

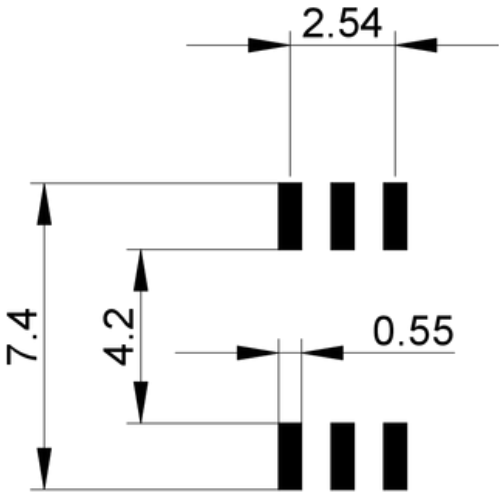
### Dimensioned drawing



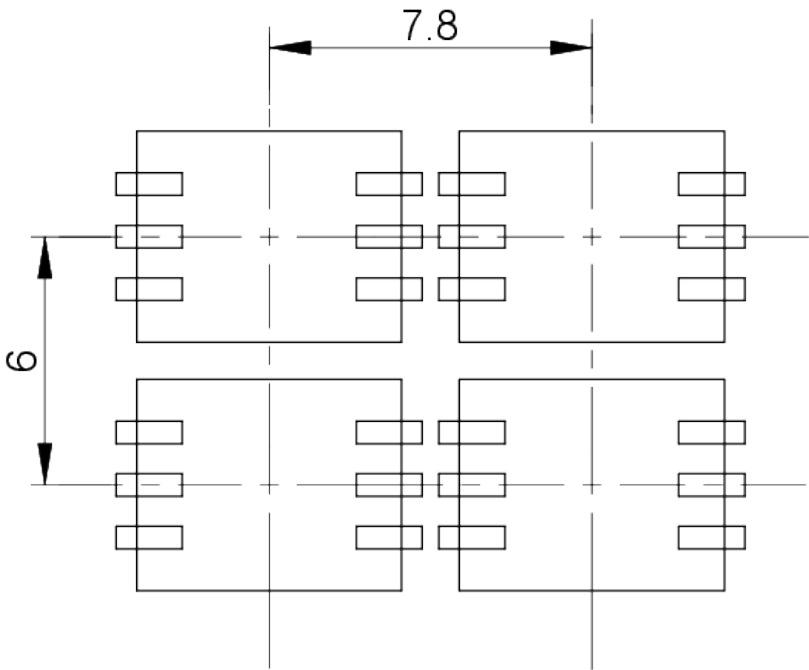
### System drawing



PCB drawing

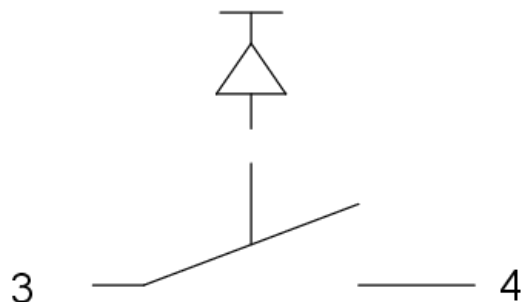
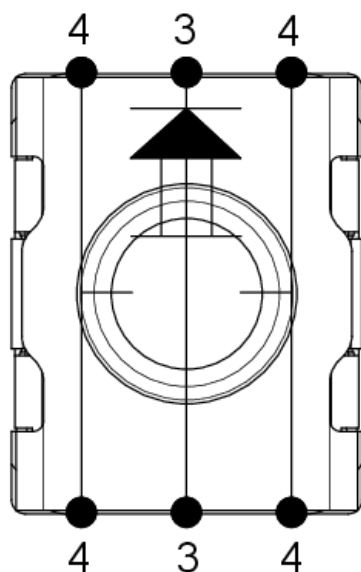


PCB drawing



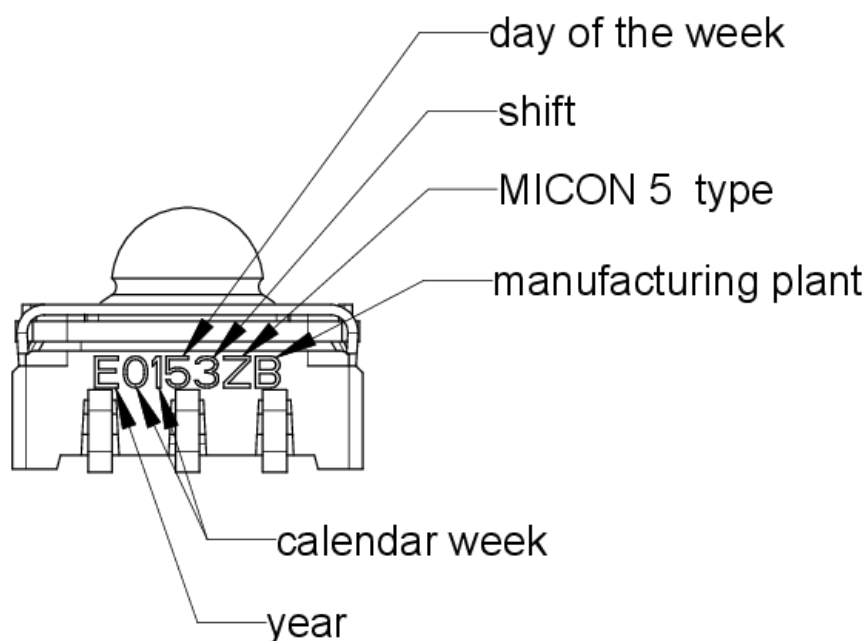
MICON 5 SMT

## Schematic diagram

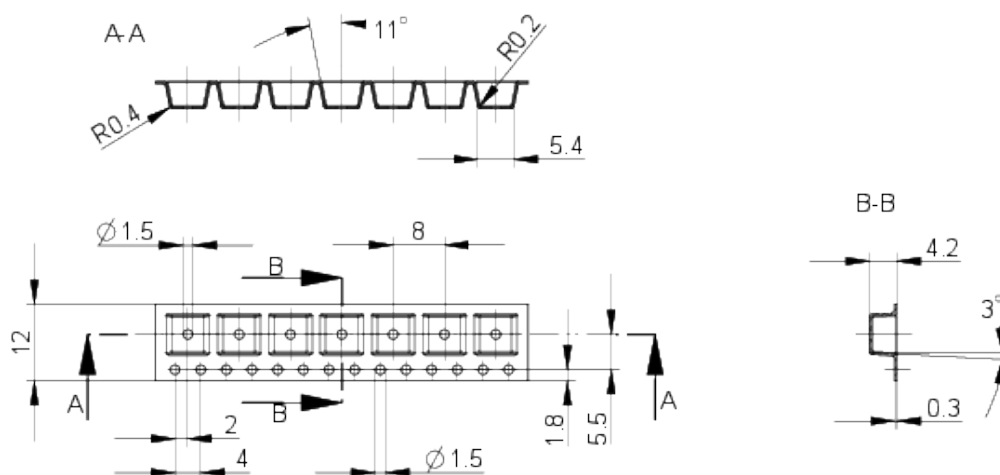


Circuit symbol according  
to IEC 617

## Product labeling drawing



## Packaging drawing

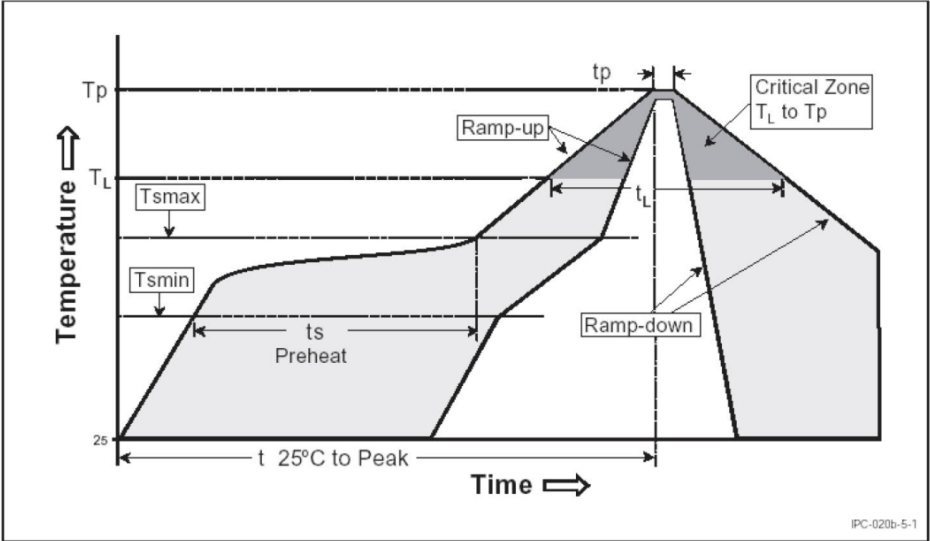


mounting

RAFI soldering profile for ROHS compliant  
reflow components

RAFI

Publication date: October 7, 2021



Parameter	RAFI values
Gradient (T <sub>L</sub> to T <sub>P</sub> )	max. 3°C / s
<b>Preheating zone</b>	
Minimum temperature (T <sub>smin</sub> )	150°C
Maximum temperature (T <sub>smax</sub> )	200°C
Time (from min. to max.) (ts)	60 - 120 s
Gradient (T <sub>smax</sub> to T <sub>L</sub> )	max. 3°C / s
Time over melting temperature (T <sub>L</sub> ) time (t <sub>L</sub> )	217°C 60 – 150 s
Peak temperature (T <sub>P</sub> )	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 Jedec J-STD-020D.

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