

MICON 5, SMT standard, 5.5 ± 1.1 N, 1 NO

LBL NRFND



fields of application

- > Measurement-control-regulation
- > Mechanical and system engineering
- > Automotive
- > Electro-medical

special features

- ➤ Gold contacts, reliable switching with low currents
- > Special tactile feedback
- ➤ High packing density due to small form factor (5.1 x 6.4 mm)
- > Different operating forces
- > Ring and full illumination of the button surface due to plunger
- > Variable overall heights due to plunger
- > Terminal technology: SMT
- > Traceability through product identification in accordance with DIN EN ISO 9001

CE

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
- > Packaging in blister tape, spool with 2,100 pieces
- Proposal for stencil printing: 150 μm stencil with 10% pad reduction on area

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

direct links

> RAFI eCatalog



Solder heat resistance according DIN EN 60068-2-58 to standard DIN EN 61760-1

Packaging Blister
Packaging unit 2,100 pcs.
net weight 0.2 g

Operating life 1,000,000 cycles B10 1,300,000 cycles

MSL Moisture Sensitivity Level

Shock resistance according to 100 g at 6 ms amplitude semi-sinusoidal

standard IEC 60068-2-27

oscillation restistance according 5 g at 10...500 Hz

to standard IEC 60068-2-6

MOQ order 2,100 pcs.

RoHS compliant Yes

REACH compliant Yes

> mounting diameters

Outside dimension, length $6.4 \pm 0.1 \text{ mm}$ Outside dimension, width $5.1 \pm 0.1 \text{ mm}$ Installation height $3.85 \pm 0.1 \text{ mm}$ Grid, min. $6 \times 7.8 \text{ mm}$

> mechanical data

Actuation function momentary contact function

Operating force, max. 8 N

Operating force, min. $5.5 \pm 1.1 \text{ N}$ Switching travel $0.9 \pm 0.15 \text{ mm}$

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.

Rated voltage, max.

35 V

Dielectric strength

250 V

Rated current, min.

0.00001 A

Rated current, max.

0.1 A

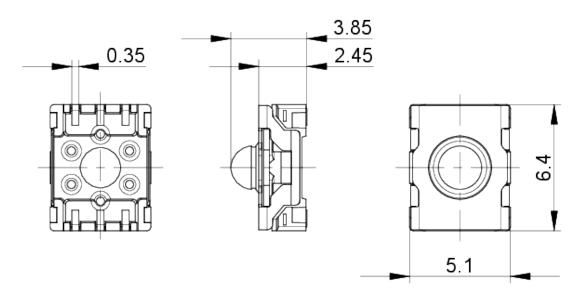
Rated power, max.

1 W

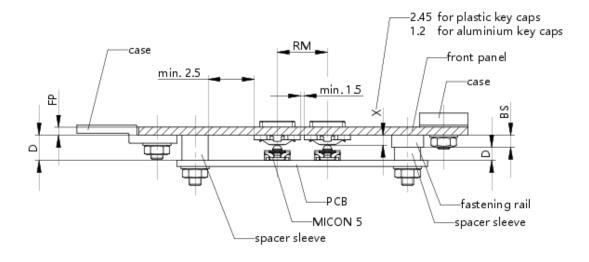


drawings

Dimensioned drawing

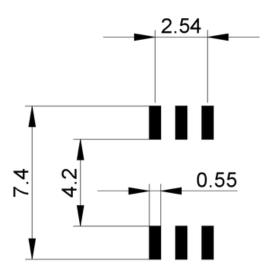


System drawing

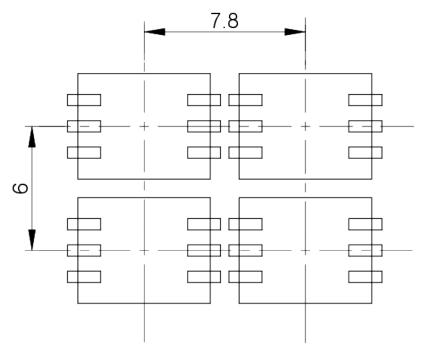




PCB drawing



PCB drawing

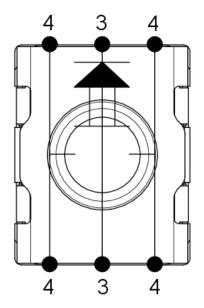


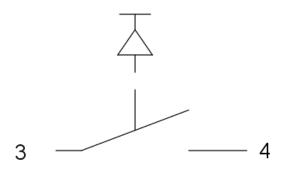
MICON 5 SMT

RAFI GmbH & Co. KG



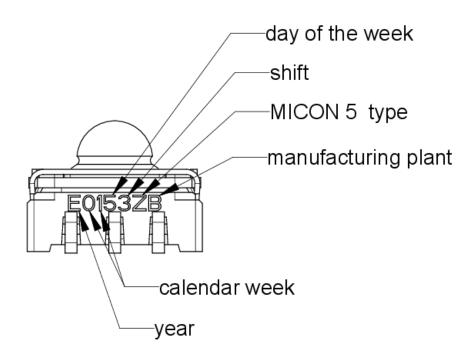
Schematic diagram





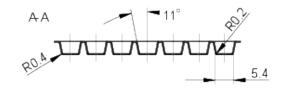
Circuit symbol according to IEC 617

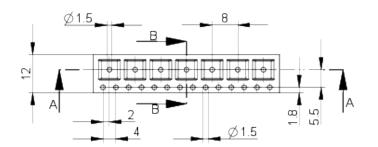
Product labeling drawing

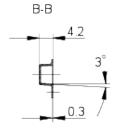




Packaging drawing







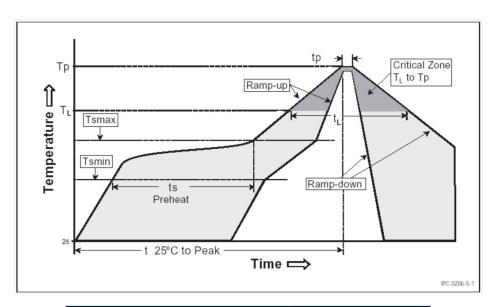


mounting

RAFI soldering profile for ROHS compliant reflow components



Publication date: October 7, 2021



Parameter	RAFI values
Gradient (T _L to T _P)	max. 3°C / s
Preheating zone Minimum temperature (T _{smin}) Maximum temperature (T _{smax}) Time (from min. to max.) (ts)	150°C 200°C 60 - 120 s
Gradient (T _{smax} to T _L)	max. 3°C/s
Time over melting temperature (T _L) time (t _L)	217°C 60 – 150 s
Peak temperature (T _P)	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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