

MICON 5, SMT standard, 2.9 ± 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
- 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
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 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

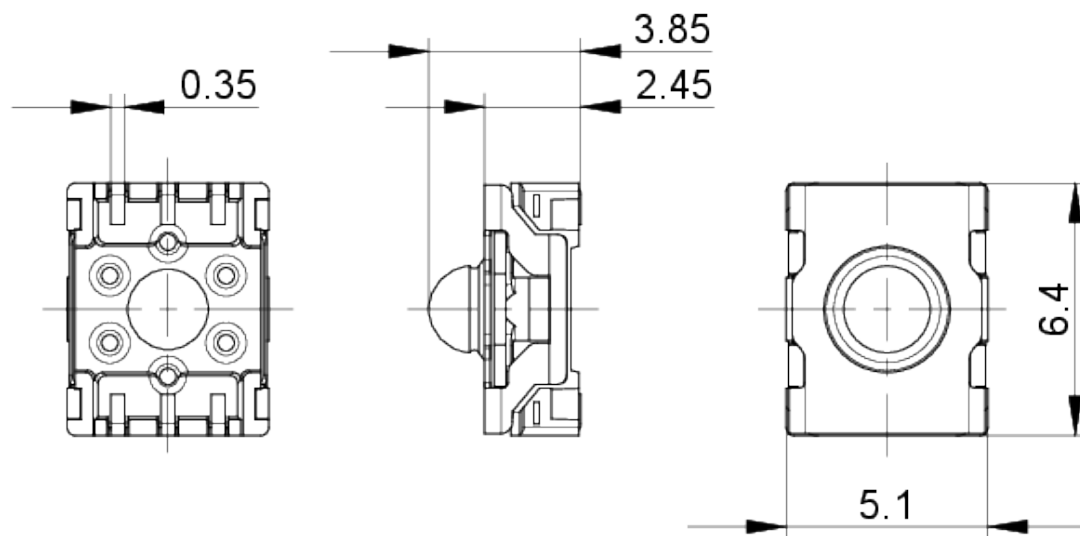
direct links

- [RAFI eCatalog](#)

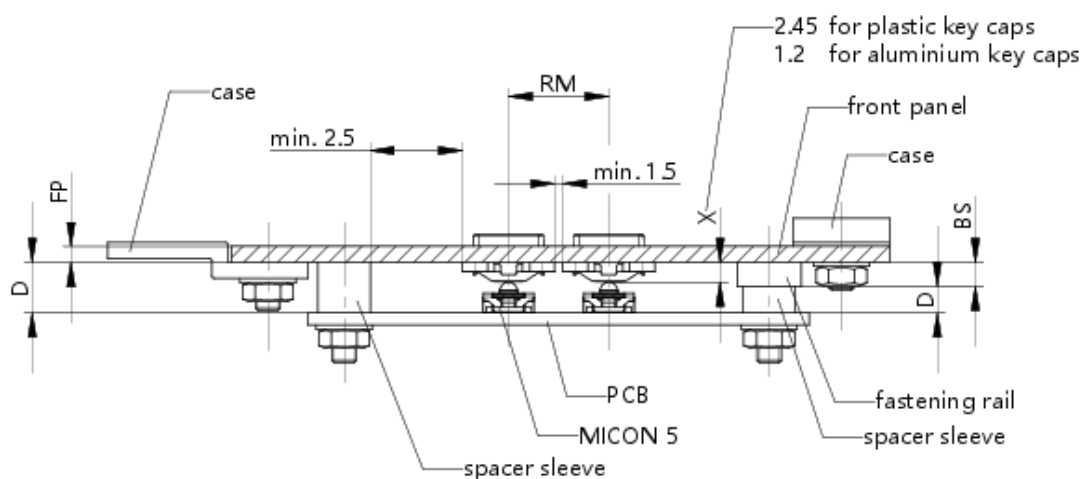
Product code	X
Country of origin	DE
> mounting diameters	
Outside dimension, length	6.4 ± 0.1 mm
Outside dimension, width	5.1 ± 0.1 mm
Installation height	3.85 ± 0.1 mm
Grid, min.	6 x 7.8 mm
> mechanical data	
Terminal on the rear	SMT
Actuation function	momentary contact function
Operating force, max.	4 N
Operating force, min.	2.9 ± 0.6 N
Contact function	1 NO
Contact system	Snap-action contact SPST - Single Pole Single Throw
Contact material	Gold
Solderability	Yes
Switching travel	0.7 ± 0.15 mm
> 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

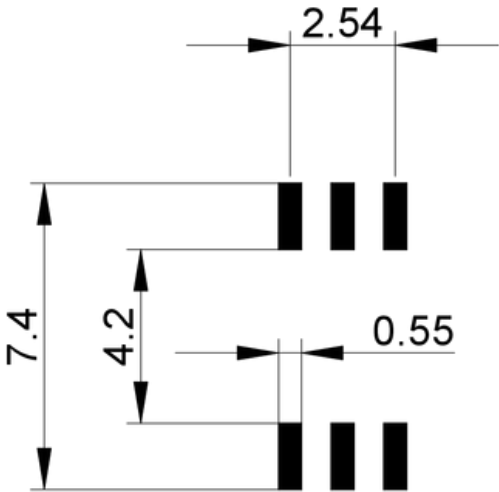
Dimensioned drawing



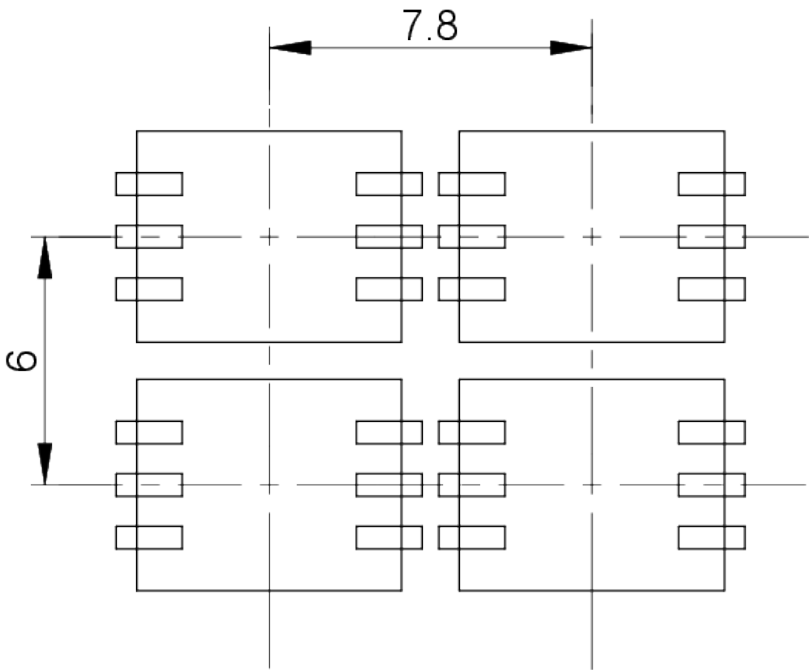
System drawing



PCB drawing

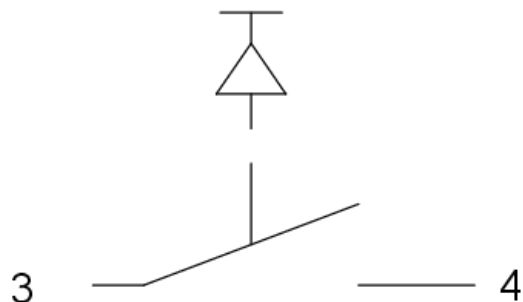
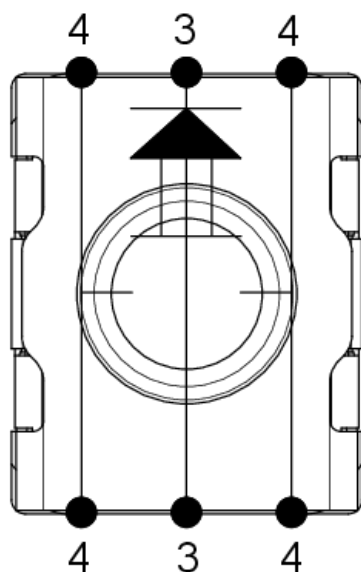


PCB drawing



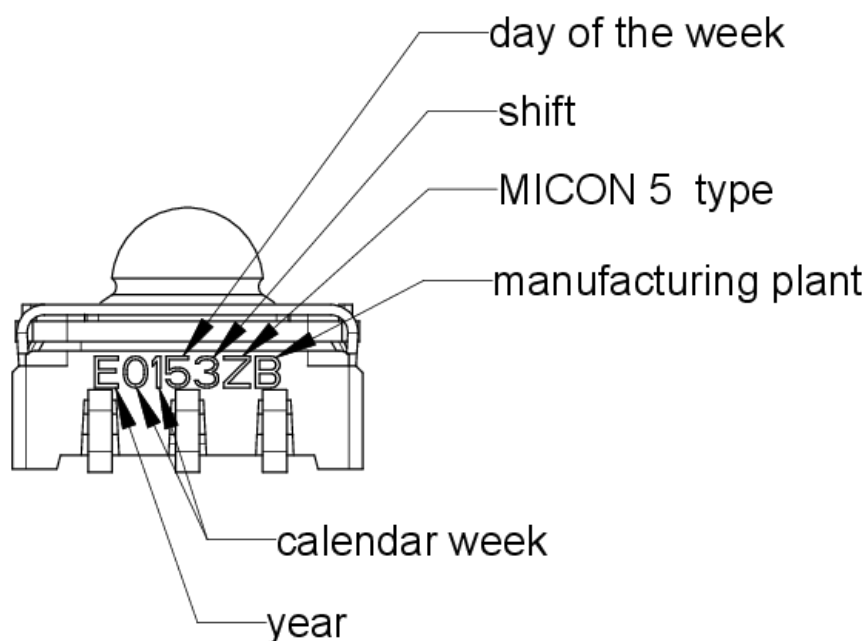
MICON 5 SMT

Schematic diagram



Circuit symbol according
to IEC 617

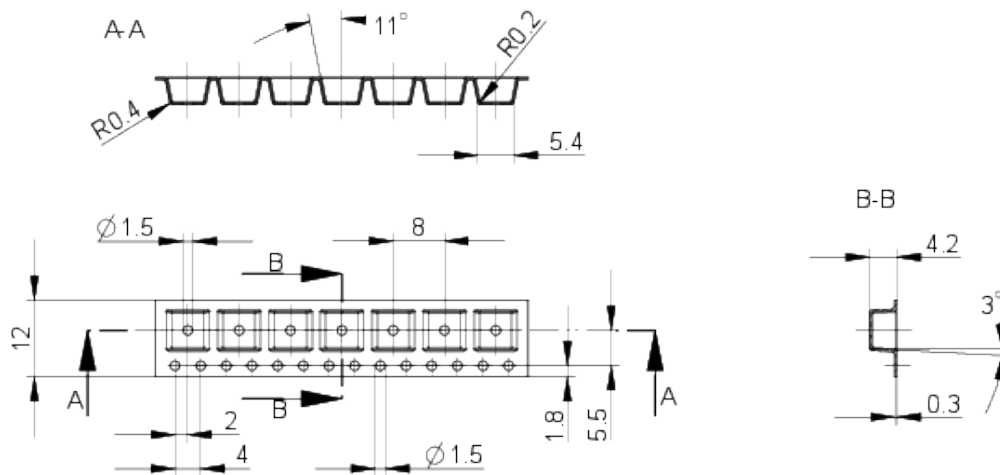
Product labeling drawing



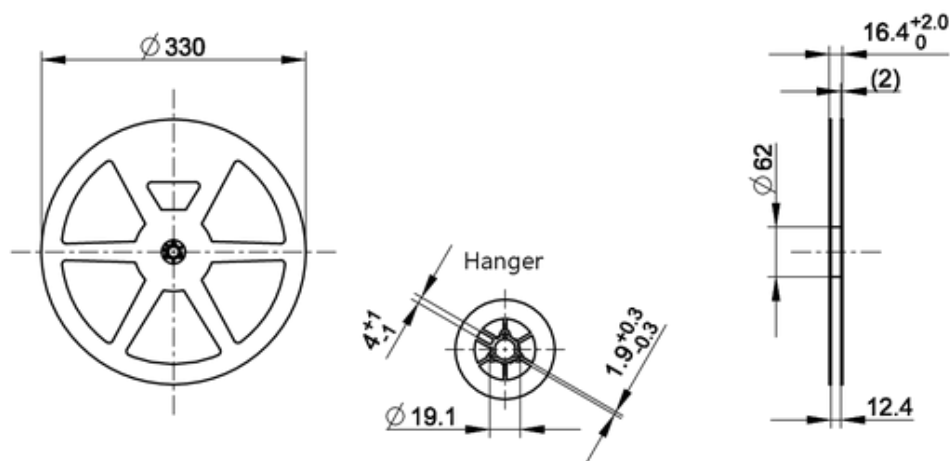
Product labeling drawing



Packaging drawing



Packaging drawing

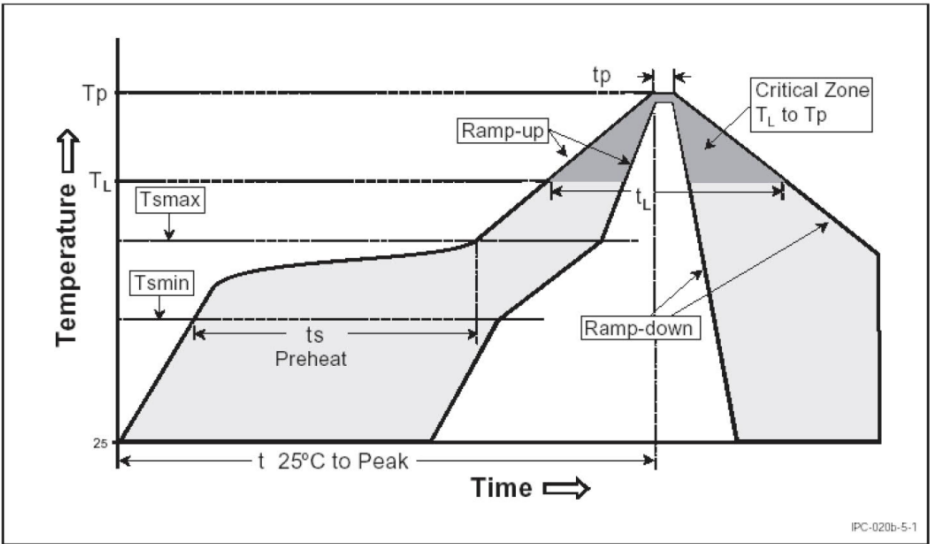


mounting

RAFI soldering profile for ROHS compliant
reflow components

RAFI

Publication date: October 7, 2021



Parameter	RAFI values
Gradient (T _L to T _P)	max. 3°C / s
Preheating zone	
Minimum temperature (T _{smin})	150°C
Maximum temperature (T _{smax})	200°C
Time (from min. to max.) (ts)	60 - 120 s
Gradient (T _{smax} to T _L)	max. 3°C / s
Time over melting temperature (T _L) time (tl)	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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RAFI GmbH & Co. KG
Ravensburger Str. 128-134, 88276 Berg / Ravensburg
GERMANY – www.rafi-group.com