

MICON 5 S, SMT standard, 3,5 ± 0,7 N, 1 NO

COMING SOON



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



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
Storage temperature, min.	-40 °C
Operating temperature, max.	125 °C
Storage temperature, max.	90 °C
illuminated	No
Soldering	Reflow

direct links

- RAFI eCatalog

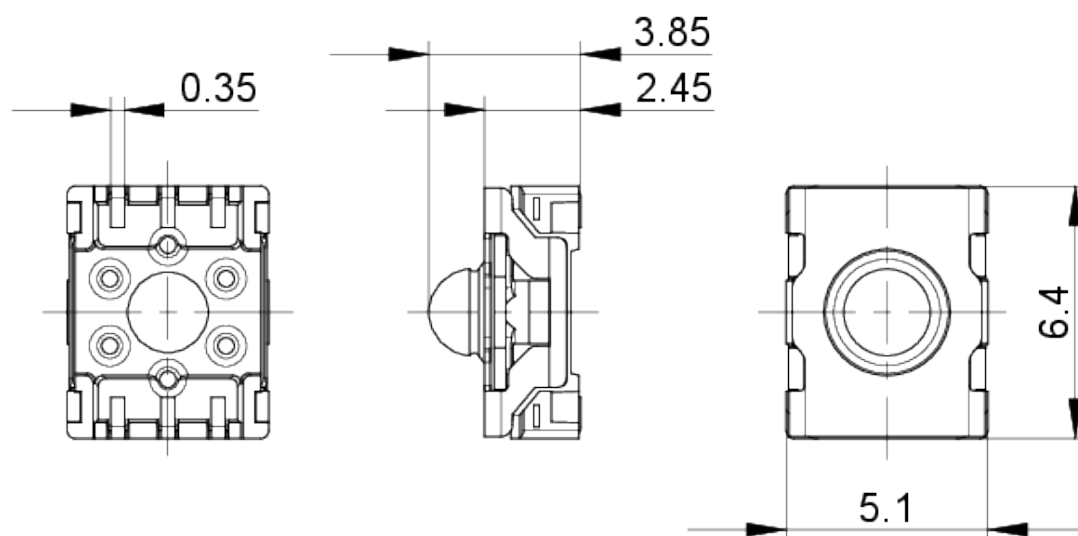
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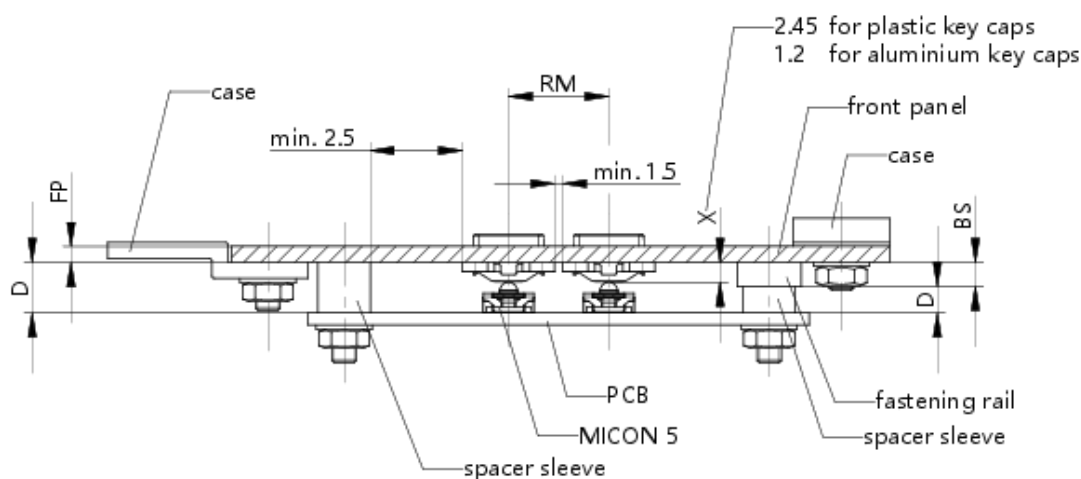
Solder heat resistance according to standard	DIN EN 60068-2-58
Packaging	DIN EN 61760-1
Packaging unit	Blister
net weight	2,100 pcs.
Operating life	0.2 g
B10	250,000 cycles
Degree of protection, front side, according to DIN EN 60529	325,000 cycles
Degree of protection, rear side, according to DIN EN 60529	IP54
MSL Moisture Sensitivity Level	IPx7
Shock resistance according to standard IEC 60068-2-27	IP54
oscillation resistance according to standard IEC 60068-2-6	IPx7
MOQ order	1
RoHS compliant	100 g at 6 ms amplitude semi-sinusoidal
REACH compliant	5 g at 10...500 Hz
> mounting diameters	
Installation height	2,100 pcs.
Grid, min.	Yes
Outside dimension, length	Yes
Outside dimension, width	3.85 ± 0.1 mm
Outside dimension, height	6 × 7,8 mm
> mechanical data	
Actuation function	6.4 ± 0.1 mm
Operating force, max.	5.1 ± 0.1 mm
Operating force, min.	3.85 ± 0.1 mm
Switching travel	
Contact function	momentary contact function
Contact system	6 N
Contact material	3,5 ± 0,7 N
Terminal on the rear	0.8 ± 0.15 mm
Solderability	1 NO
> electrical data	
Rated voltage, min.	Snap-action contact
Rated voltage, max.	Gold
Dielectric strength	250 V
Rated current, min.	0.00001 A
Rated current, max.	0.1 A
Rated power, max.	1 W

drawings

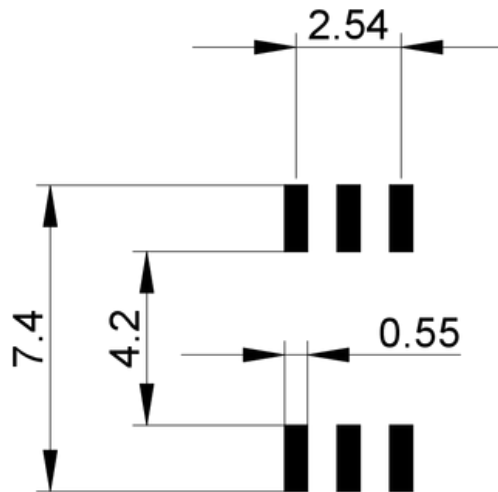
Dimensioned drawing



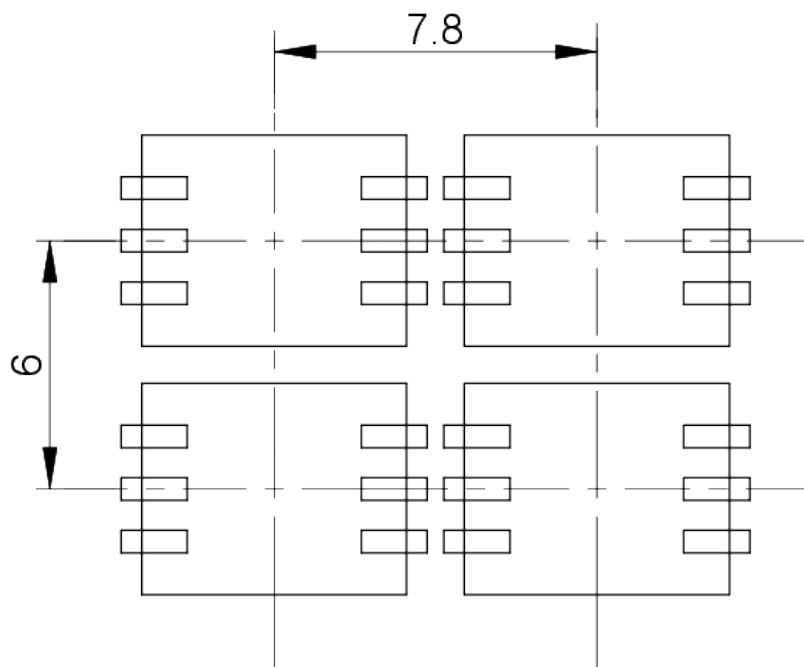
System drawing



PCB drawing

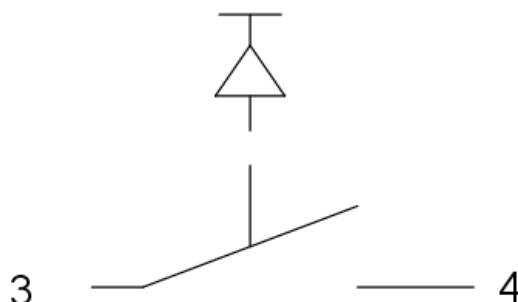
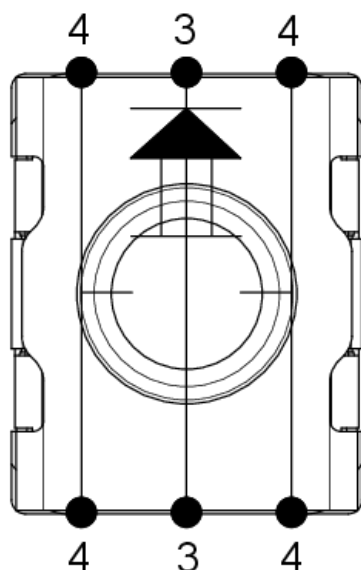


PCB drawing



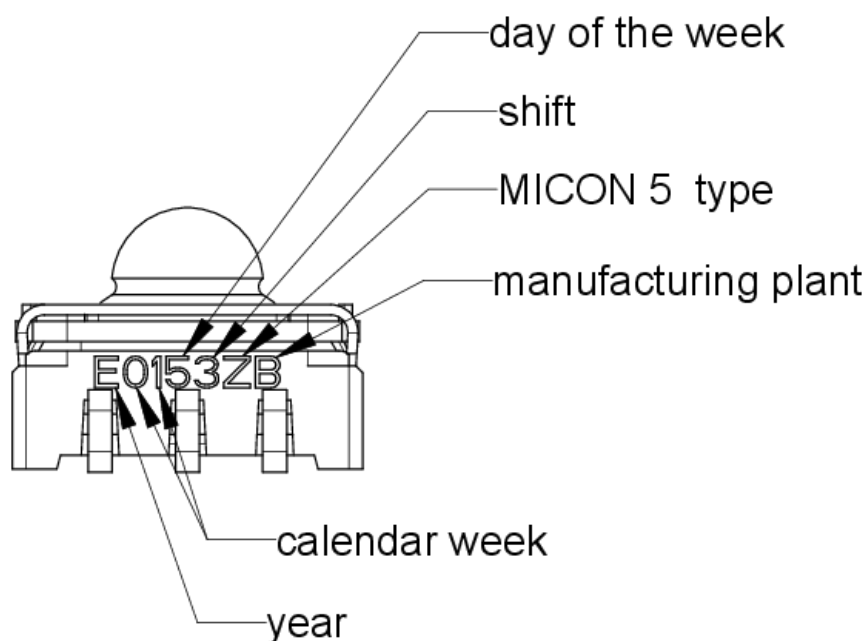
MICON 5 SMT

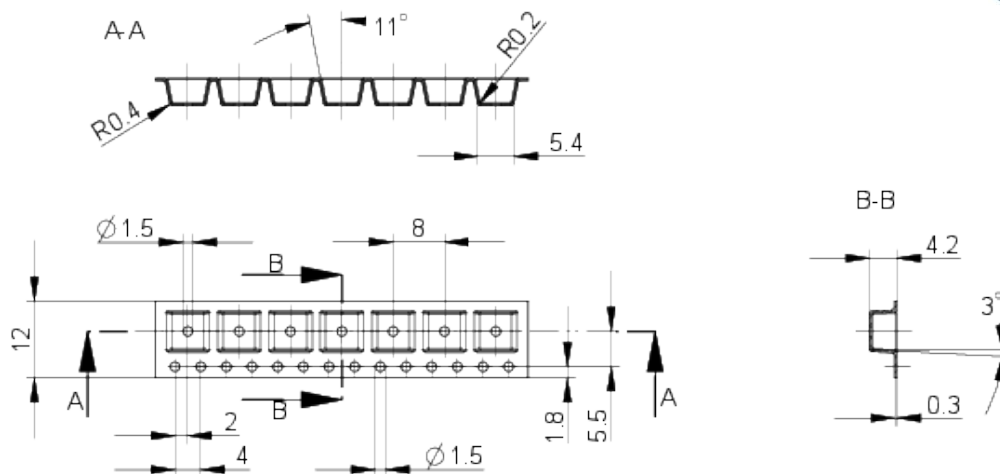
Schematic diagram



Circuit symbol according
to IEC 617

Product labeling drawing



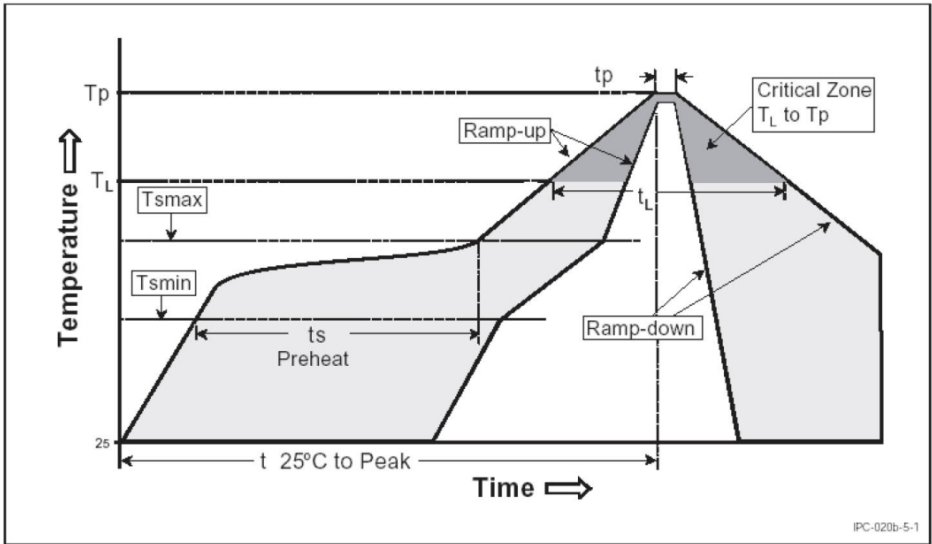
Packaging drawing

mounting

RAFI soldering profile for ROHS compliant
reflow components



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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 (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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