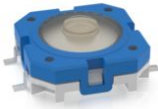


RACON 12, SMT, 3.6 ± 0.7 N, 1 NO

DISCONTINUED



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
- Different operating forces
- Variable overall heights due to plunger
- Terminal technology: SMT or THT
- Traceability through product identification



description

Our top-quality RACON 12 tactile switches – in the dimensions 12 x 12 mm – feature an unmistakable click, high switching reliability, and a sealed contact system. That has made RACON the standard in many industries. Whether for automotive applications, systems with keycaps, or membrane keyboards, RACON impresses in the THT or SMT versions – for your application too.

RACON 12 tactile switches can be arranged individually, in rows or as key blocks. When used beneath membrane overlays, the RACON key switches should be combined with plungers. 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 designs with SMT automatic assembly machines
- IMDS entry

technical data

➤ general

Color	blue
Operating temperature, min.	-40 °C
Operating temperature, max.	90 °C
Storage temperature, min.	-50 °C
Storage temperature, max.	90 °C
illuminated	No
Soldering	Reflow
Solder heat resistance according to standard	DIN EN 60068-2-58
Packaging	Blister
Packaging unit	750 pcs.
net weight	0.8 g

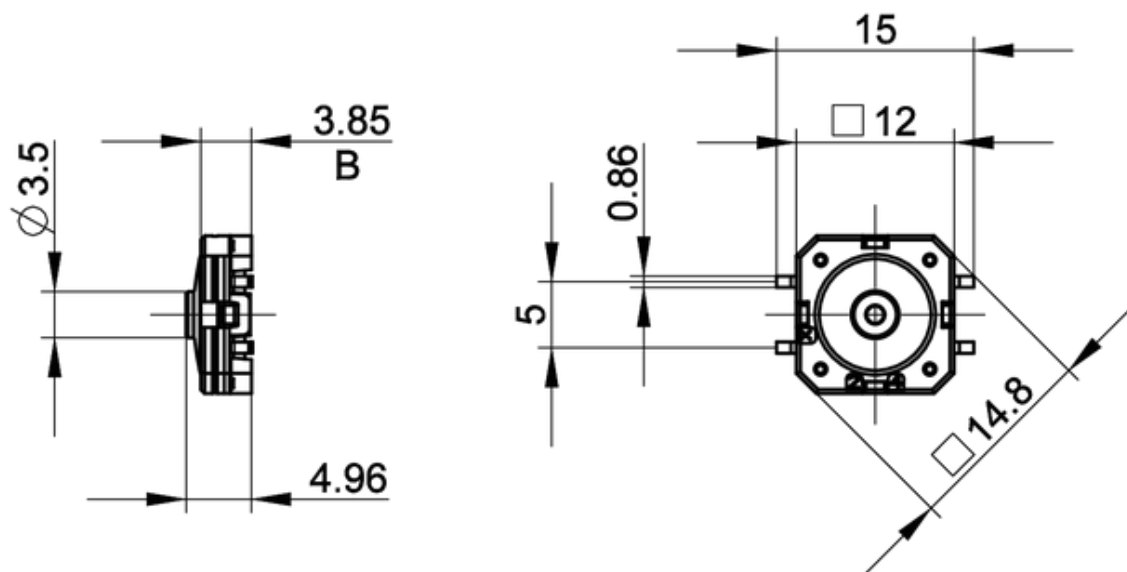
direct links

- RAFI eCatalog

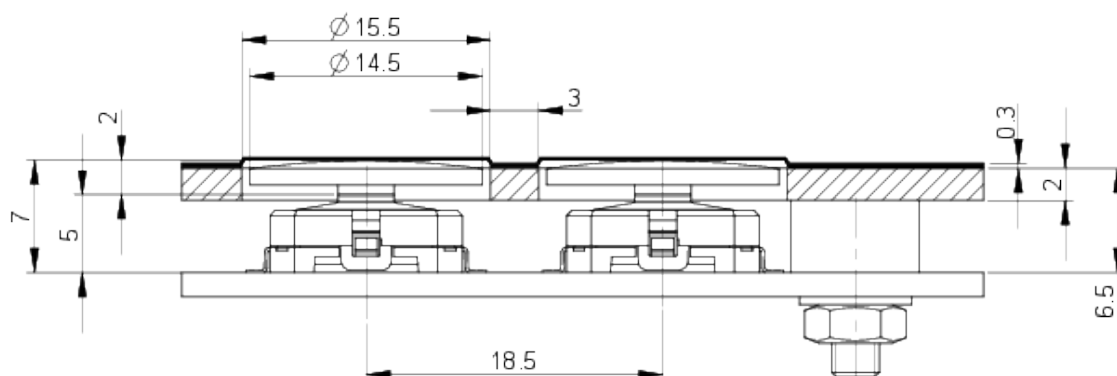
Operating life	1,000,000 cycles
B10	1,300,000 cycles
MSL Moisture Sensitivity Level	1
Corrosive gas testing according to standard	Yes
MOQ order	750 pcs.
RoHS compliant	Yes
REACH compliant	Yes
Component material	Elastomer
Product code	C1
> mounting diameters	
Outside dimension, length	12 mm
Outside dimension, width	12 mm
Outside dimension, height	4.95±0.1 mm
Installation height	4.95±0.1 mm
Grid, min.	12.50 x 15.24 mm
> mechanical data	
Actuation function	momentary contact function
Operating force, max.	8 N
Operating force, min.	3.6 ± 0.7 N
Switching travel	0,61±0,1 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
Rated current, min.	0.00001 A
Rated current, max.	0.1 A
Rated power, max.	1 W

drawings

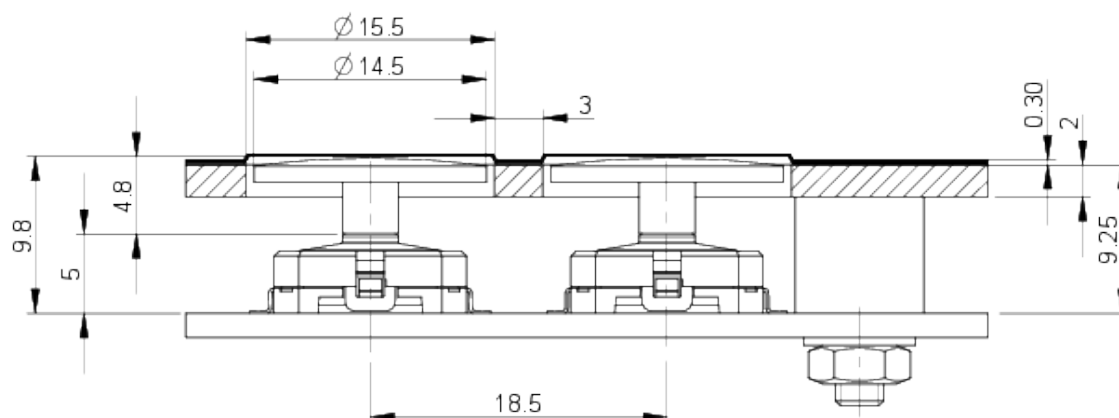
Dimensioned drawing



System drawing



System drawing

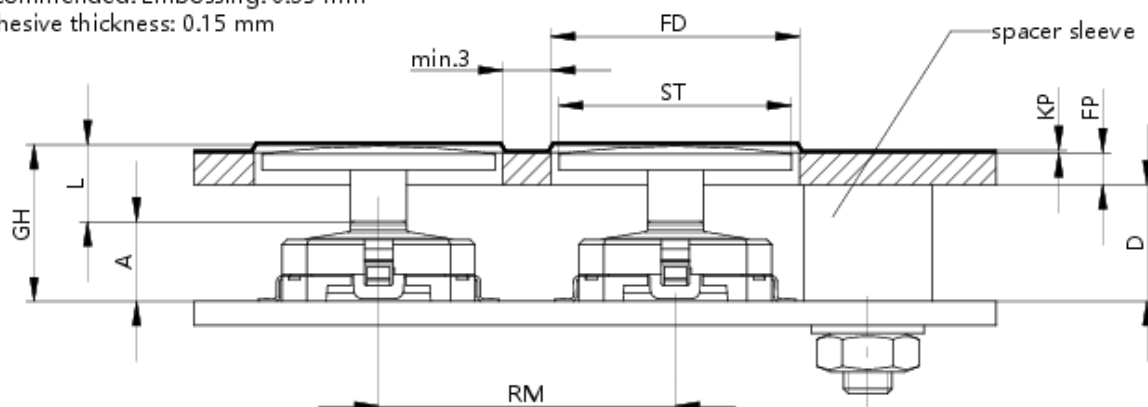


System drawing

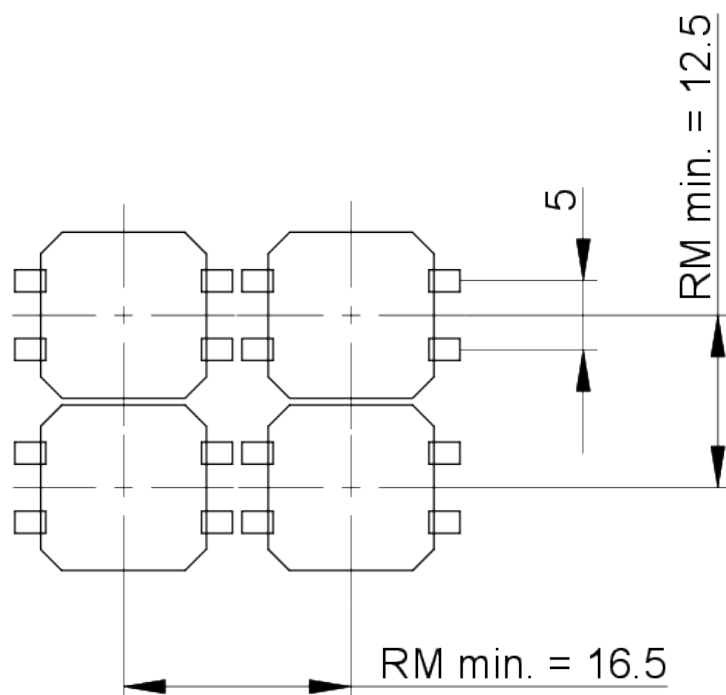
SMT gullwing connection

Recommended: Embossing: 0.35 mm

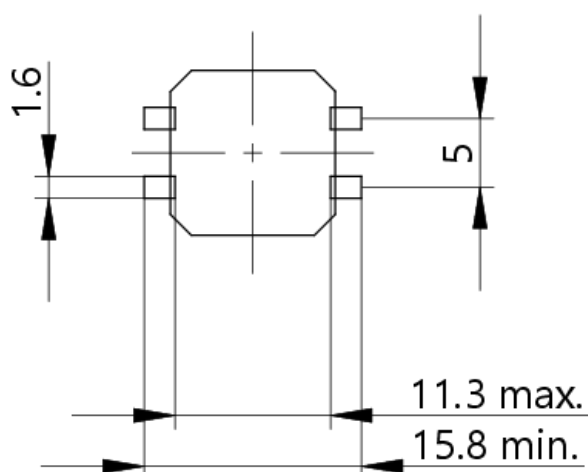
Adhesive thickness: 0.15 mm



PCB drawing

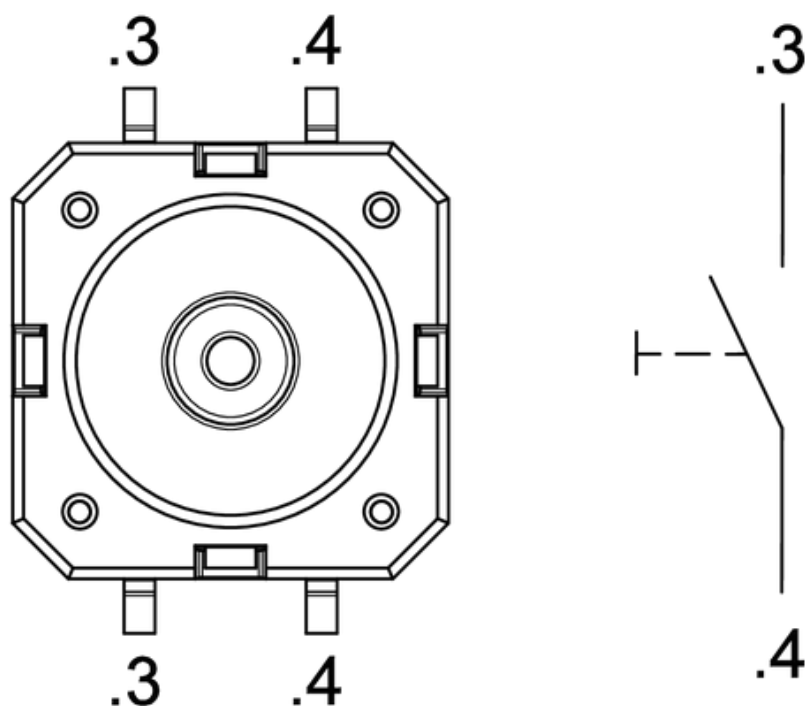


PCB drawing

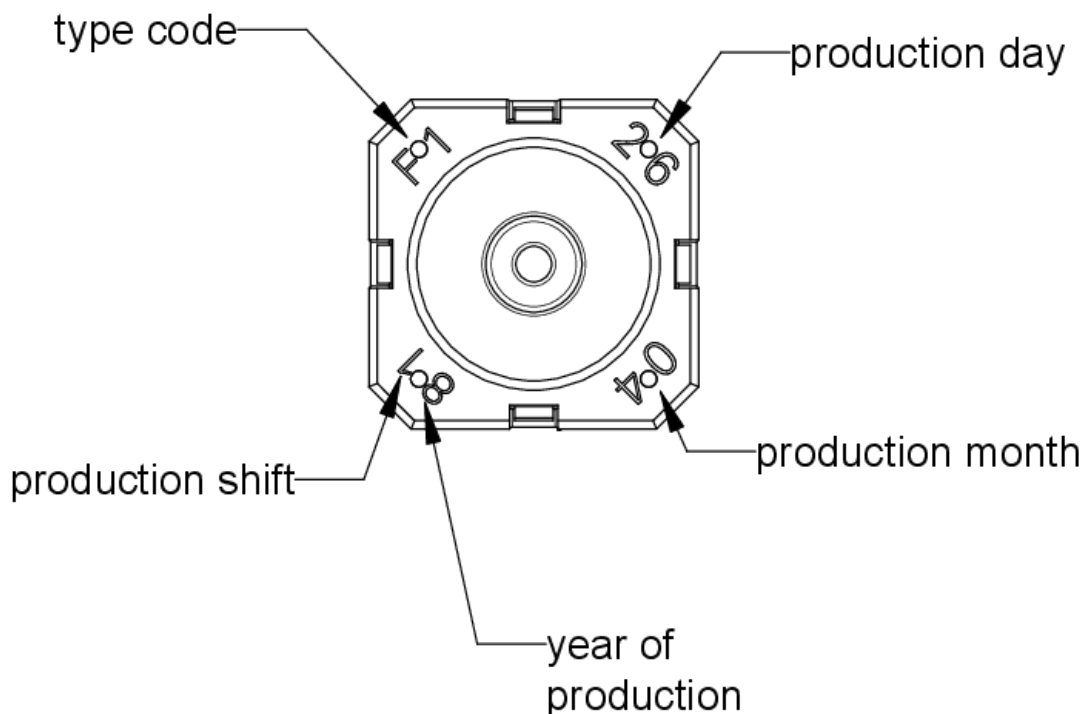


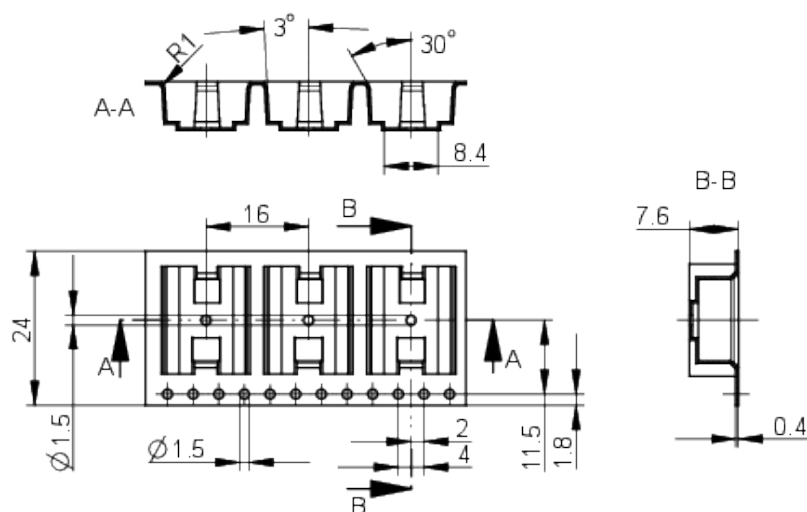
PCB-Pad
component side

Schematic diagram



Product labeling drawing



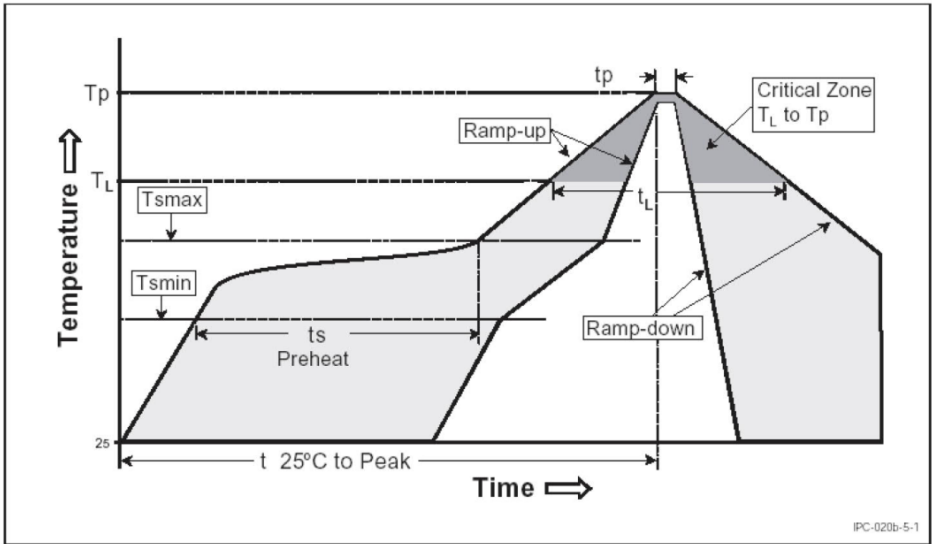
Packaging drawing

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})	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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