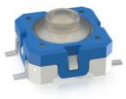
RACON 8, SMT, 2.5 N, 1 NO

LBL_NRFND



Description

Our top-quality RACON 8 tactile switches – in dimensions 8.4 x 8.4 mm – feature an unmistakeable 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 8 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

CE

technical data

general

Color	blue
Operating temperature, min.	-40 °C
Operating temperature, max.	90 °C
Storage temperature, min.	-50 °C
Storage temperature, max.	85 °C
illuminated	No
Soldering	Reflow
Solder heat resistance according to standard	DIN EN 60068-2-58
Packaging	Blister
Packaging unit	750 pcs.
Operating life	1,000,000 cycles
B10	1,300,000 cycles
MSL Moisture Sensitivity Level	1
Corrosive gas testing according to standard	Yes
Minimum order quantity (MOQ)	750 pcs.

direct links

- RAFI eCatalog

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RoHS compliant	Yes
REACH compliant	Yes
Component material	Elastomer
Country of origin	DE

mounting diameters

Outside dimension, length	8.4 mm
Outside dimension, width	8.4 mm
Installation height	6.6 ± 0.15 mm
Grid, min.	8.9 x 12.7 mm

mechanical data

Terminal on the rear	SMT
Actuation function	momentary contact function
Operating force, min.	2.5 N
Contact function	1 NO
Contact system	Snap-action contact SPST - Single Pole Single Throw
Contact material	Gold
Solderability	Yes
Switching travel	0.6 mm

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

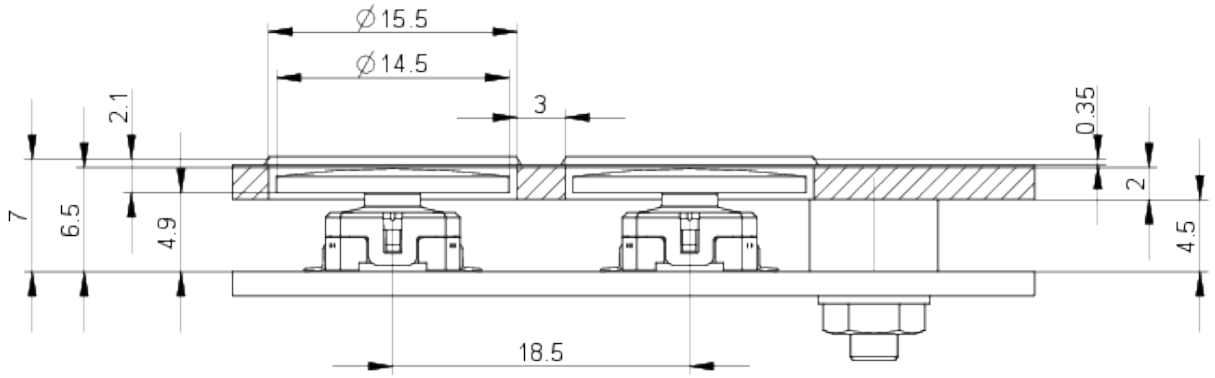
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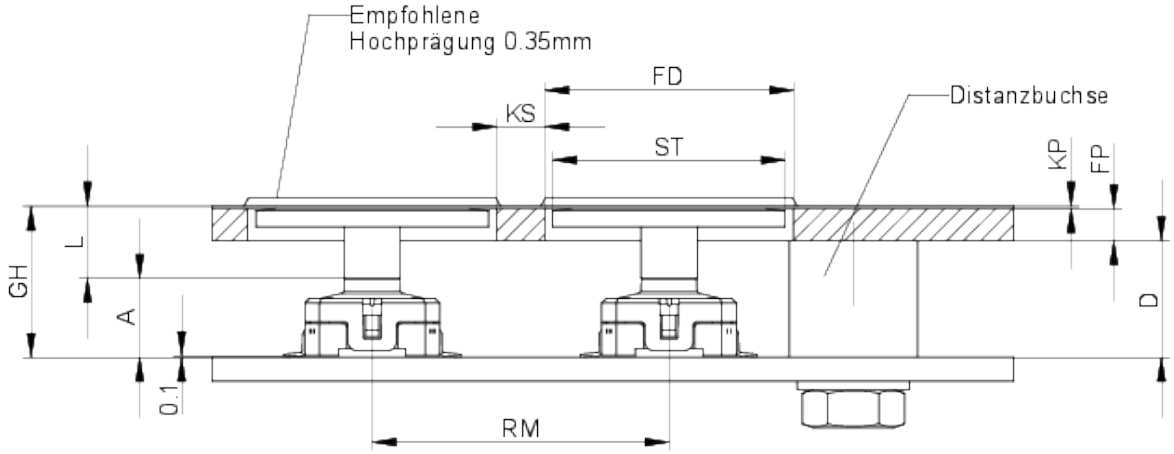
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drawings

System drawing



System drawing

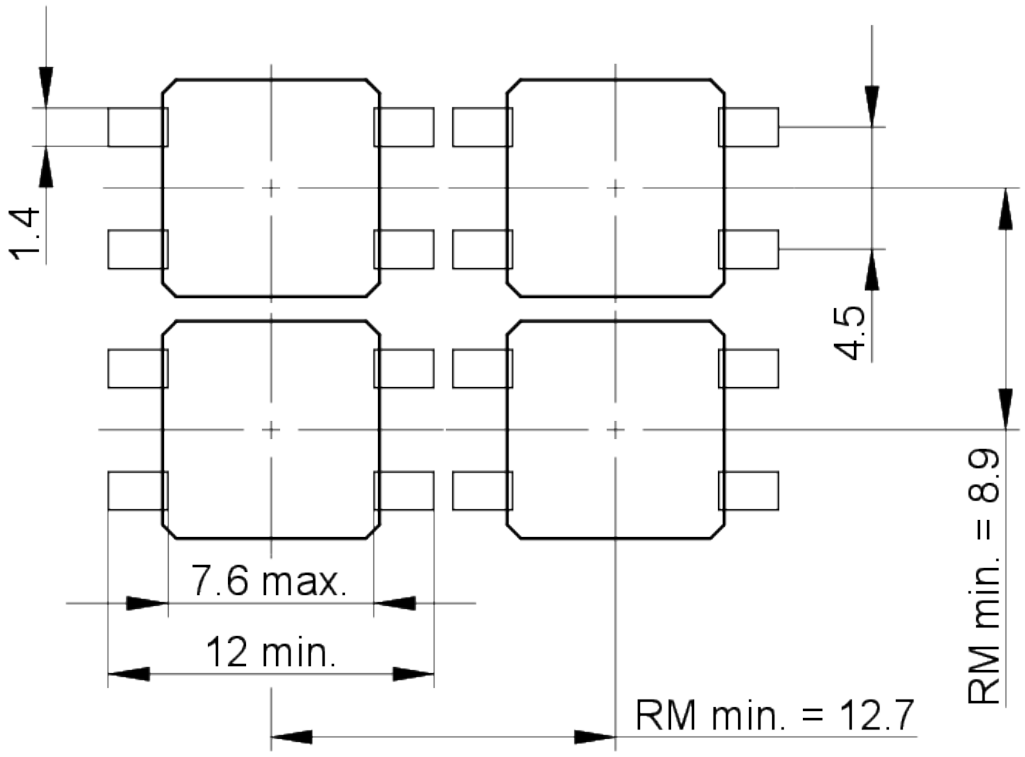


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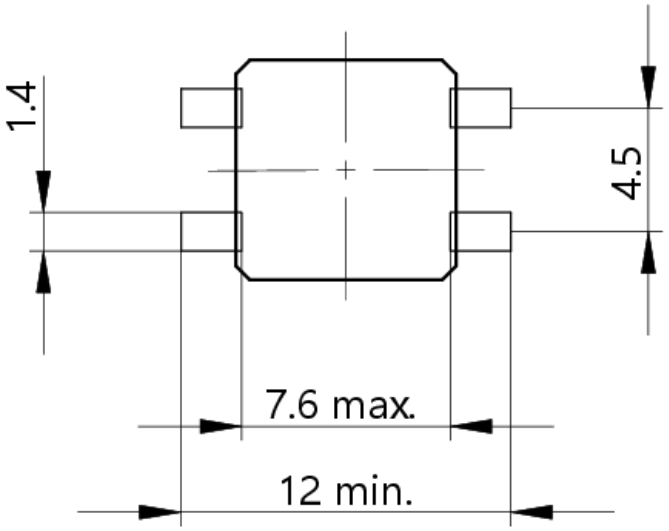
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PCB drawing



PCB drawing



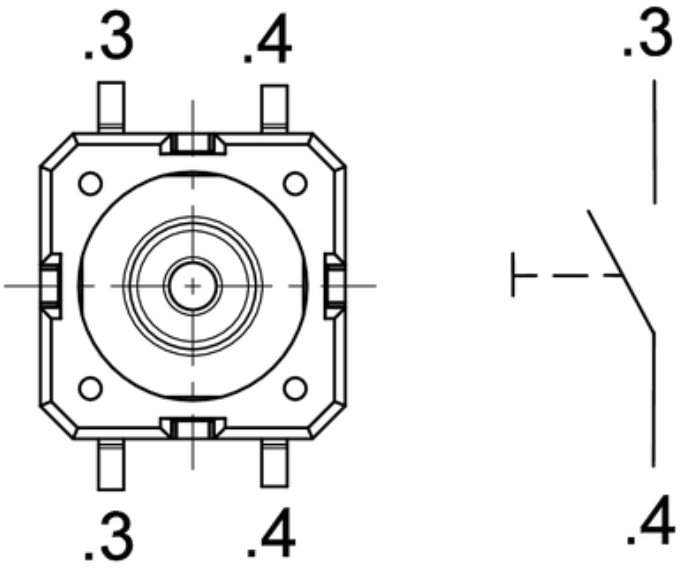
PCB-Pad
component side

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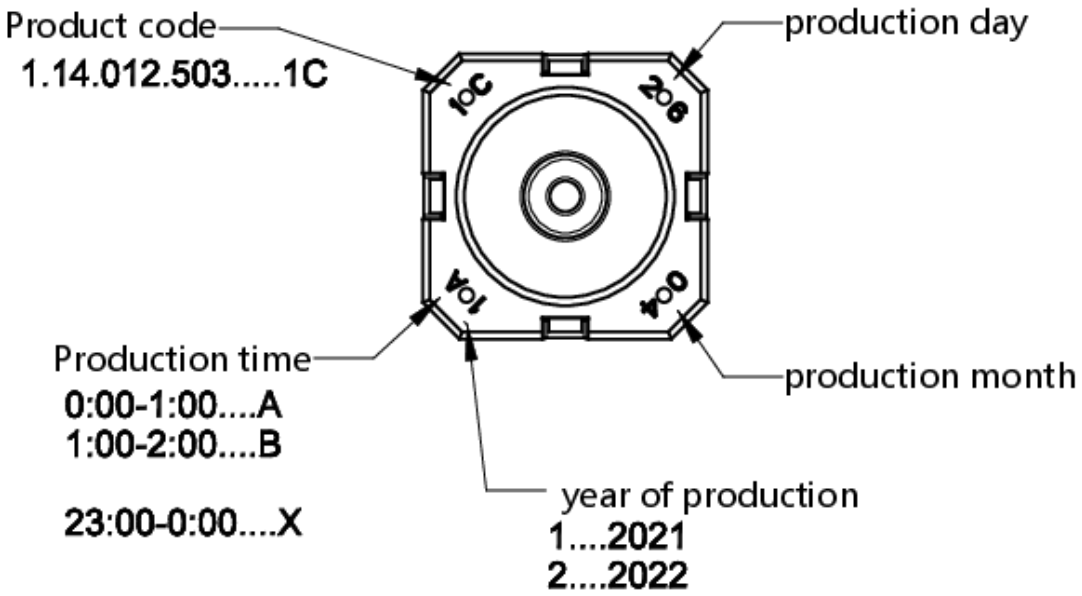
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Schematic diagram



Product labeling drawing



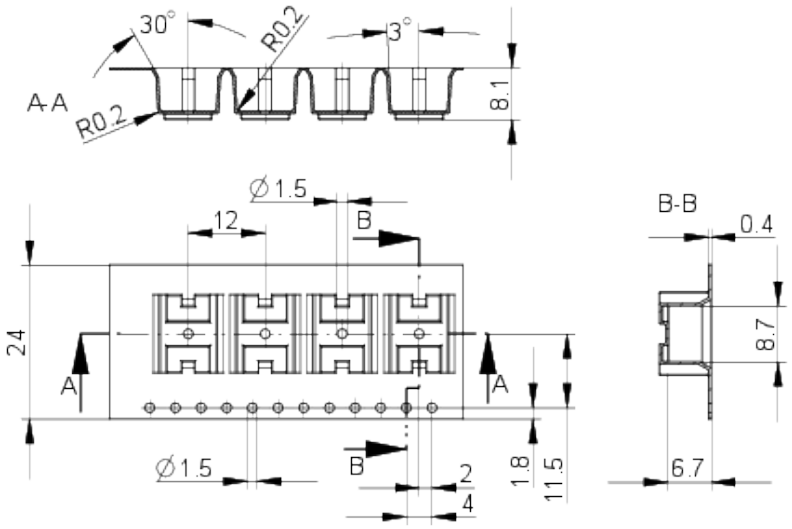
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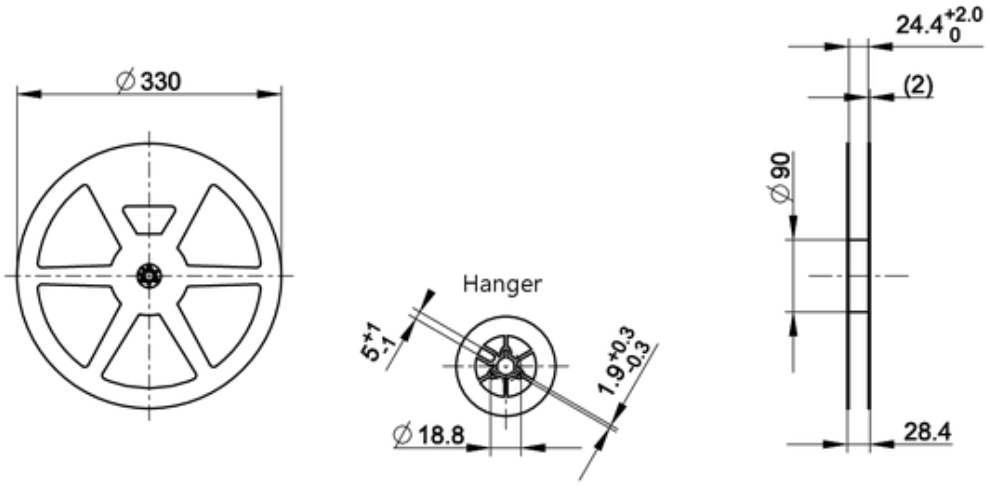
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Packaging drawing



Packaging drawing



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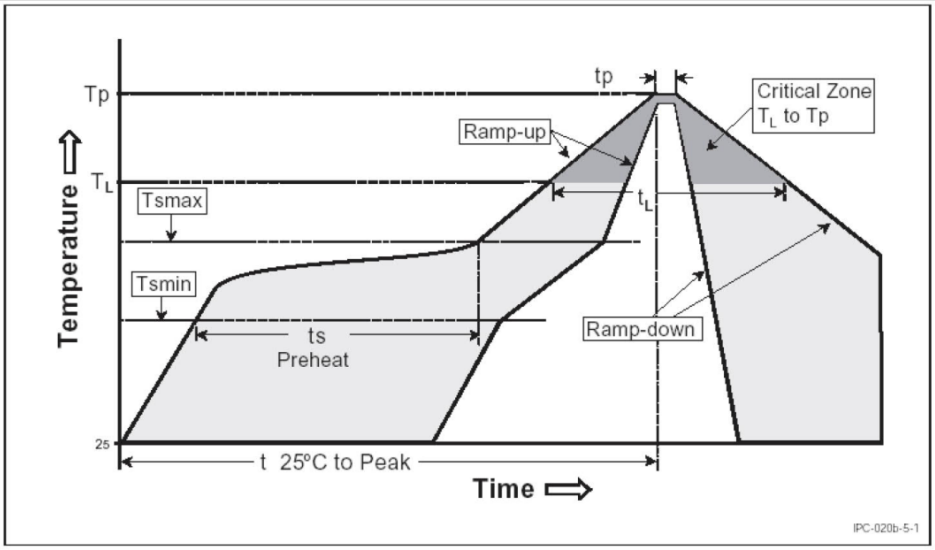
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mounting

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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