## 3.14.100.533/0000



# RF 15 R, gold, low, spot illumination 1 LED, 2.9 ± 0.6 N, lamp yellow, 1 NO



#### fields of application

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

#### special features

- > Gold contacts, reliable switching with low currents
- > Optional spot illumination
- > Round plunger / key switch shape
- > Round cut-outs in the front panel
- > Narrow key grid of 15.24 mm possible
- > Overall height: 9.7 mm or 12.5 mm
- > Terminal technology: THT

CE

### description

The RF 15 R gold tactile switches have a 15 x 15 mm edge length, reliable gold contacts and a noticeable click. They are used in flat data entry keyboards under overlays or under keycaps, such as RAFI RK 90 keycaps.

The round pressure pad of the RF 15 R requires round cut-outs in the front panel. These enable a narrow keyboard grid of just 15.24 mm with sufficiently large adhesive strips between the individual key switches. The overlay, which we recommend embossing above the key switches, can be glued onto these strips of glue.

#### technical data

>	aer	neral

Luminous element color yellow
Operating temperature, min. -25 °C

Operating temperature, max. 70 °C
Storage temperature, min. -25 °C
Storage temperature, max. 70 °C
illuminated Yes

Luminous elements Spot illumination 1 LED

Soldering time for manual 5 sec

soldering, max.

Soldering temperature for manual 350 °C

soldering

Soldering temperature for wave 260 °C

soldering

Soldering Manual / wave
Solder heat resistance according DIN EN 60068-2-20

Solder heat resistance according to standard

Packaging

direct links

> RAFI eCatalog

The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products are the mere results of individual technical testing. These descriptions and other product features are only binding if they expressly agreed upon at the time of the conclusion of a binding contract. In all other cases, we reserve the right to make technical changes as well as changes of availability. Pictures and other graphic illustrations are approximations only. All product names may be trademarks or brand names of the RAFI Group or any other sub-supplier of RAFI. The use of such by any third parties for their own purposes may infringe the rights of the respective entity holding those rights.

date: Jan 5, 2025 page: 1/4

Tube

RAFI GmbH & Co. KG

Ravensburger Str. 128-134 88276 Berg / Ravensburg Germany www.rafi-group.com, info.headquarters@rafi-group.com

## 3.14.100.533/0000



Packaging unit 32 pcs. net weight 2.1 g

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

MOQ order 32 pcs.

RoHS compliant Yes

REACH compliant Yes

#### > mounting diameters

Outside dimension, length 15 mm
Outside dimension, width 15 mm
Outside dimension, height 9.7 mm
Installation height 9.7 mm
Grid, min. 15.24 mm

#### > mechanical data

Actuation function momentary contact function

Operating force, min.  $2.9 \pm 0.6 \text{ N}$ Switching travel  $0.5^{+0.3} \text{ mm}$ 

Contact function 1 NO

Contact system Snap-action contact

Contact material Gold
Fixing Soldering

Solderability Yes
Terminal on the rear THT

#### > electrical data

Operating voltage of the luminous 2 V

element, min.

Operating voltage of the luminous 5 V

element, max.

Rated voltage, min. 0.02 V
Rated voltage, max. 35 V
Operating current of the luminous 20 mA

element, max.

Rated current, min.

Rated current, max.

0.00001 A

Rated power, max.

2 W

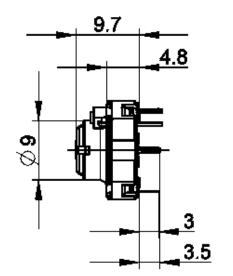
dropping resistor

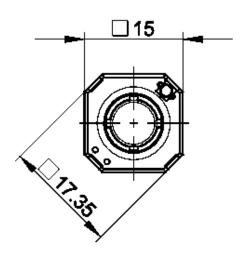
no



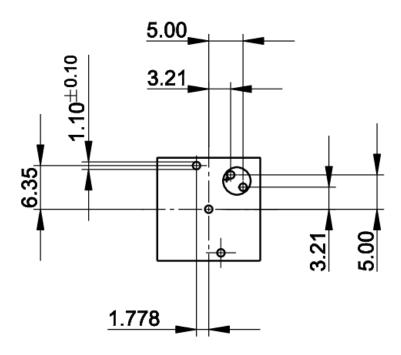
## drawings

#### **Dimensioned drawing**





#### **PCB** drawing

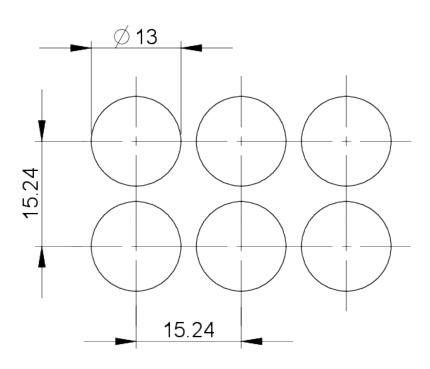


Button with 1x point illumination

## 3.14.100.533/0000



#### front panel drawing



#### front panel drawing

