

RF 15, silver, full illumination, 2.9 ± 0.6 N, lamp yellow, bezel yellow, 1 NO



fields of application

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

special features

- Silver contacts, reliable switching with medium currents
- Optional: spot illumination or full illumination
- Key grid 19.05 mm
- Overall height: 9.7 mm or 12.5 mm with keycap
- Terminal technology: THT



description

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

Flat data entry keyboards with RF 15 elements should be constructed in a 19.05 mm grid. With this grid, strips of glue remain between the individual keys on the front panel. The overlay, which we recommend embossing above the key switches, can be glued onto these strips of glue.

RF 15, mit Silber-Kontakten, vollflächige Ausleuchtung der Blende zur Ausleuchtung von Fenstern in der Dekorfolie, bzw. transparenten Tastenkappen RK 90.

technical data

➤ general

Bezel color	yellow
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	Full illumination 2 LEDs
Soldering time for manual soldering, max.	5 sec
Soldering temperature for manual soldering	350 °C
Soldering temperature for wave soldering	260 °C
Soldering	Manual / wave

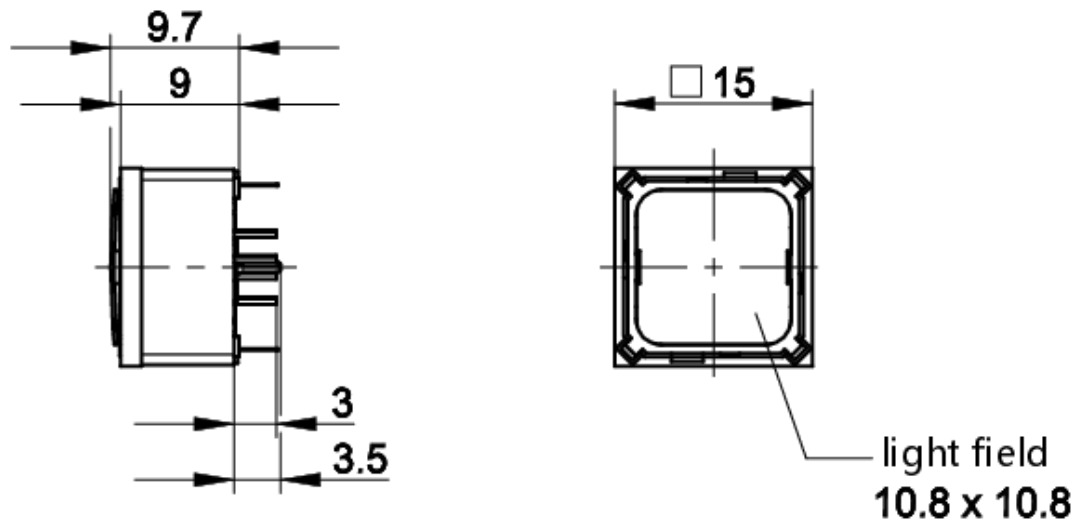
direct links

- [RAFI eCatalog](#)

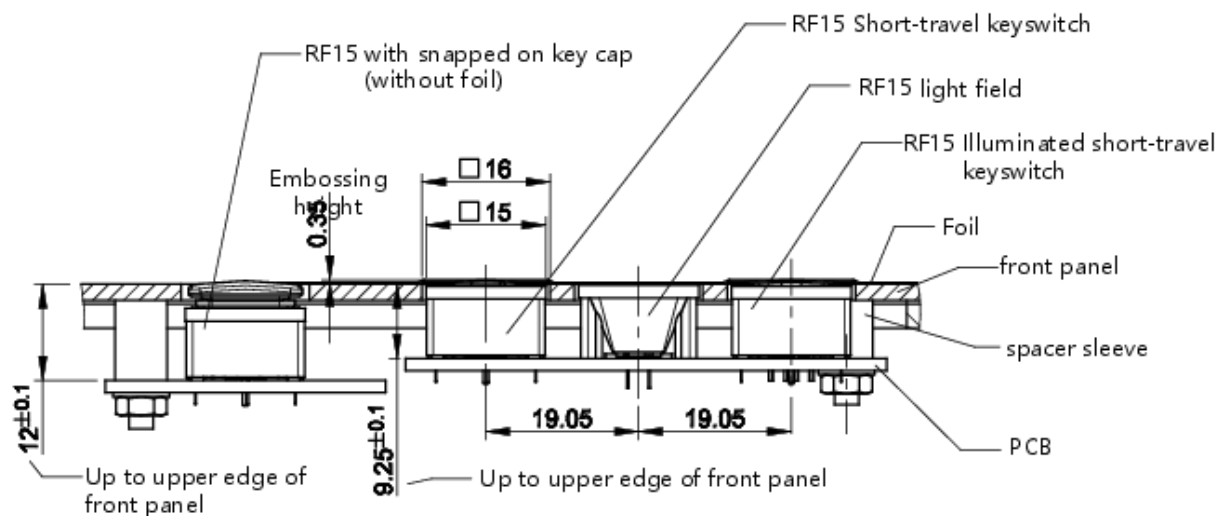
Solder heat resistance according to standard	DIN EN 60068-2-20
Packaging	Tube
Packaging unit	32 pcs.
net weight	2.8 g
Operating life	1,000,000 cycles
B10	1,300,000 cycles
MOQ order	32 pcs.
RoHS compliant	Yes
REACH compliant	Yes
> mounting diameters	
Outside dimension, length	15 mm
Outside dimension, width	15 mm
Outside dimension, height	9.7 mm
Installation height	9.7 mm
Grid, min.	19.05 mm
> mechanical data	
Actuation function	momentary contact function
Operating force, min.	2.9 ± 0.6 N
Switching travel	0.5 ^{+0.3} mm
Contact function	1 NO
Contact system	Snap-action contact
Contact material	Silver
Fixing	Soldering
Solderability	Yes
Terminal on the rear	THT
> electrical data	
Operating voltage of the luminous element, min.	2 V
Operating voltage of the luminous element, max.	5 V
Rated voltage, min.	3 V
Rated voltage, max.	35 V
Operating current of the luminous element, max.	20 mA
Rated current, min.	0.0001 A
Rated current, max.	0.25 A
Rated power, max.	12.5 W
dropping resistor	no

drawings

Dimensioned drawing



System drawing



Technical drawing of a square plate with the following dimensions and features:

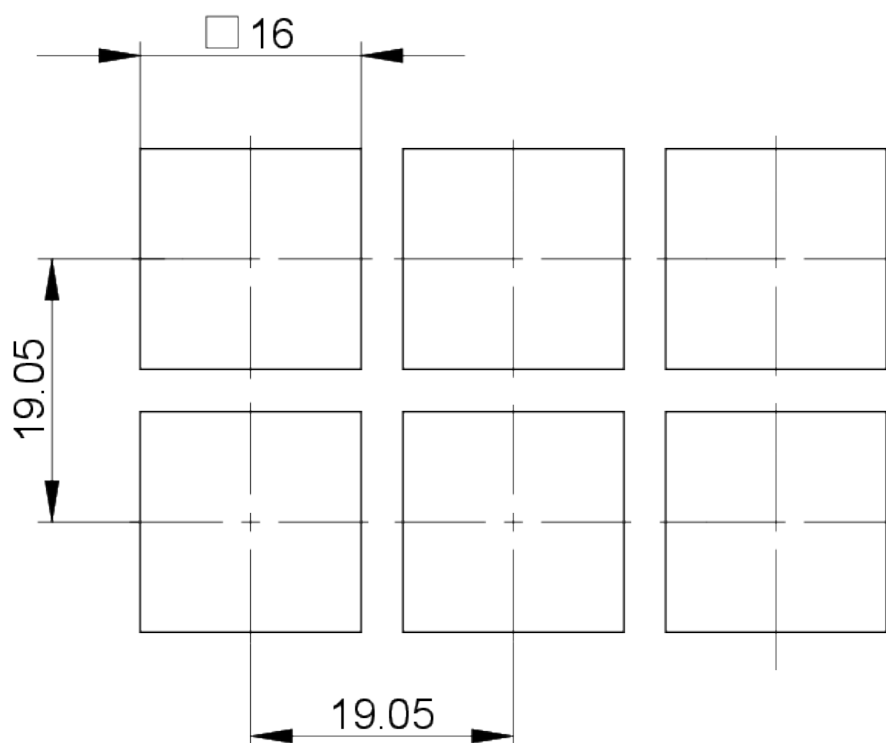
- Overall width: 1.778
- Overall height: 2.54
- Central square hole: 0.64 x 0.64
- Four small circular holes arranged in a square pattern within the central hole, each with a diameter of $\phi 1.10 \pm 0.10$.
- Distance from the top edge to the center of the small holes: 6.35
- Distance from the right edge to the center of the small holes: 0.64
- Distance from the bottom edge to the center of the small holes: 0.64
- Distance from the left edge to the center of the small holes: 0.64

Button full illumination

Diagram illustrating the experimental setup for the 3x3 grid task. The setup includes a 3x3 grid of buttons with various dimensions and labels:

- Grid Dimensions:**
 - Overall width: 19.05 inches (15.24 min.)
 - Overall height: 19.05 inches
 - Button width: 5.08 inches
 - Button height: 3.556 inches
 - Spacing between buttons (horizontal): 1.27 inches
 - Spacing between buttons (vertical): 1.27 inches
- Buttons and Illumination:**
 - Button not illuminated:** Located at the bottom-left position.
 - Button with 2x point illumination:** Located at the top-middle position.
 - Button with full illumination:** Located at the bottom-right position.
 - Diode:** A diode symbol is shown with a '+' sign and a '-' sign.
- Other Dimensions:**
 - 2.54 inches (vertical spacing between the top row and the middle row).
 - 5.00 inches (horizontal spacing between the middle column and the right column).
 - 3.21 inches (vertical spacing between the middle row and the bottom row).
 - 5.8 inches (diagonal dimension from the top-right corner to the center of the bottom-right button).

front panel drawing



front panel drawing

