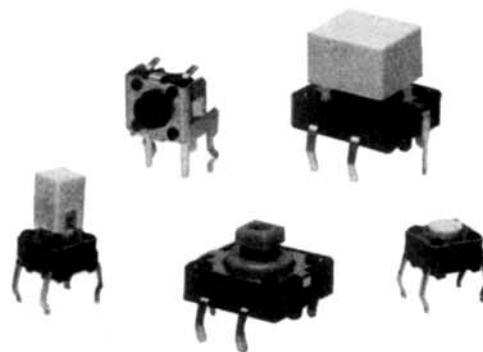


B3F

Features

- Extended mechanical/electrical service life: 10×10^6 operations for 12×12 mm (.472 x .472 in.) type and 1×10^6 operations for the 6×6 mm (.236 x .236 in.) type
- Ideal for applications such as audio, office and communications equipment, measuring instruments, TVs, VCRs, etc.
- Surface illumination type, vertical type, high force type, surface mount type sealed, and gold-plated contact type are available as series versions
- Flux-tight base structure allows automatic soldering of the keyswitches onto a PC board
- All switches are miniature, low profiled and housed in a 6×6 mm (.236 x .236 in.) or 12×12 mm (.472 x .472 in.) case
- Snap-action contact mechanism assures short key stroking with a sharp click for secure input

Mechanical Keyswitches



2 SWITCHES & KNOBS

Characteristic Data

Switching capacity 50mA, 24 VDC (Resistive)

Insulation resistance 100MΩ min. (at 250 VDC)

Dielectric strength 500 VAC, 50/60 Hz for 1 minute

Service life (mechanical/electrical)*:

B3F-1 / **B3F-4**: 3×10^6 (0.3×10^6) operations min.

Operating force:

B3F-1: General purpose type: 100 ± 30 g

High-force type: 150 ± 50 g

B3F-4: General purpose type: 130 ± 50 g

High-force type: 260 ± 70 g

Release force (min.):

B3F-1: General purpose type: 20 g, High-force type: 50 g

B3F-4: General purpose type: 30 g, High-force type: 50 g

Note: * Figure in parentheses denotes the service life of high force type.

Ordering Information

6 x 6 mm (.236 x .236 in.) type

Type	Plunger	Classification Ground terminal Switch height x Pitch	General purpose type (DF=100g)		High-force type (DF=150g)	
			Not provided	Provided	Not provided	Provided
Standard	Flat	4.3 x 6.5 mm (.169 x .256 in.)	B3F-1000	B3F-1100	B3F-1002	B3F-1102
	Projected	7.3 x 6.5 mm (.287 x .256 in.)	B3F-1050	B3F-1150	B3F-1052	B3F-1152

12 x 12 mm (.472 x .472 in.) type

Type	Plunger	Classification Ground terminal Switch height x Pitch	General purpose type (DF=100g)		High-force type (DF=150g)	
			Not provided	Provided	Not provided	Provided
Standard	Flat	4.3 x 12.5 mm (.169 x .492 in.)	B3F-4000	B3F-4100	B3F-4005	B3F-4105
	Projected	7.3 x 12.5 mm (.287 x .492 in.)	B3F-4050	B3F-4150	B3F-4055	B3F-4155

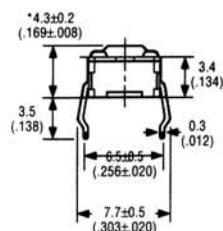
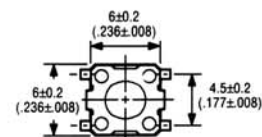
Construction Data

Termination PC board terminals

Packaging method Box with inner bags, tubes

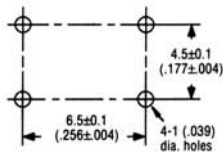
Dimensions [Unit: mm (inch)]

B3F-1000



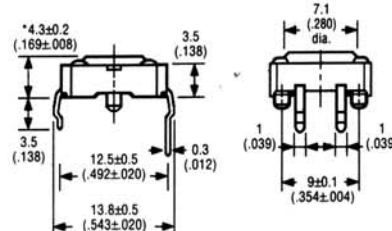
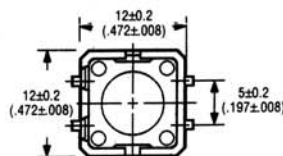
B3F-1000

Mounting holes (top view)



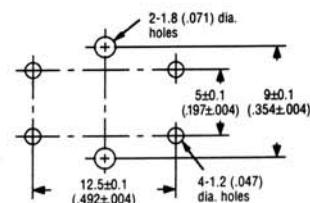
* Height of B3F-1020/-1022 is $5 (.197) +0.05 (.002) -0.12 (.008)$

B3F-4000



B3F-4000

Mounting holes (top view)



Note: 1. Unless otherwise specified, a tolerance of ± 0.4 mm (.016 in.) applies to all dimensions.

2. * Fit the projection of the switch into this hole to secure the switch.

3. ** Terminal numbers are not indicated on this switch. With the switch turned over so that the logo mark 'OMRON' is visible on the upper part of the rear side of the switch base, the terminal on the right of the logo mark is numbered '1' and that on the bottom right is '3'. Accordingly, two terminals on the left side are numbered '2' and '4' respectively.

4. Vertical style and caps available.