ED & EDM Domes



Features

- *Short travel*
- *Good tactile feedback*
- *Self cleaning*
- *3 actuation forces*
- *RoHS*

Typical Applications

- *Aircraft*
- *Instrument*
- *Panels*
- *Radio equipment*

Specification

ED: Disc element
EDM: Disc element and double dome
FUNCTION: Momentary action
CONTACT TYPE: Normally open - SPST
TERMINALS: Through hole PCB terminations or Tabs
OPERATING LIFE: 1,000,000

Packaging

Trays 50 pieces.

Electrical

	Silver	Gold
MAXIMUM POWER:	1.0 VA	0.2 VA
MAXIMUM VOLTAGE:	100 VDC	100 VDC
MINIMUM VOLTAGE:	20m VDC	20m VDC
MIN/MAX CURRENT:	1.0 mA - 100 mA	50µA - 50 mA
DIELECTRIC STRENGTH:	≥ 250 Vrms	
CONTACT RESISTANCE:	≤ 100 mΩ	
INSULATION RESISTANCE: (between terminals)	Initial measurement: ≥ 1 GΩ After damp heat: ≥ 10 MΩ	
BOUNCE TIME:	≤ 3 ms	

Environmental

	Silver	Gold
OPERATING TEMPERATURE:	-25˚C to 70˚C	-55˚C to 85˚C

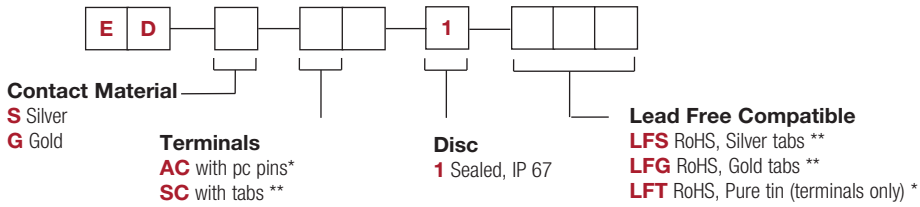
Mechanical

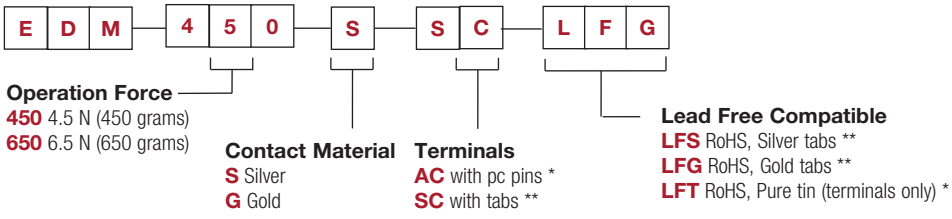
Type	Operating force Newtons (grams)	Tactile Feeling (Δ%)	Return Force N	Travel (mm)
EDSAC LFS	2.4 (240) ± 25%	≥ 30%	≥ 0.4 N	0.3mm ± 0.15
EDSSC LFS	2.4 (240) ± 25%	≥ 30%	≥ 0.4 N	0.3mm ± 0.15
EDM450SAC LFS	4.5 (450) ± 25%	≥ 25%	≥ 1.0 N	0.5mm ± 0.25
EDM650SSC LFS	6.5 (650) ± 25%	≥ 25%	≥ 1.6 N	0.6mm ± 0.25

SIMULTANEITY: ≤ 0.05 mm

How To Order

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



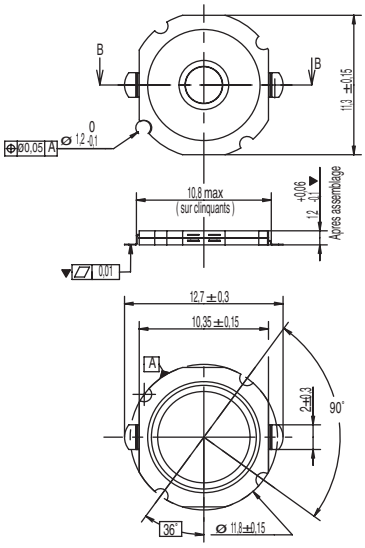


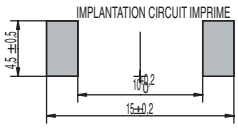
Note
* AC terminals only available with LFT
** SC terminals only available with LFS or LFG

First Angle Projection

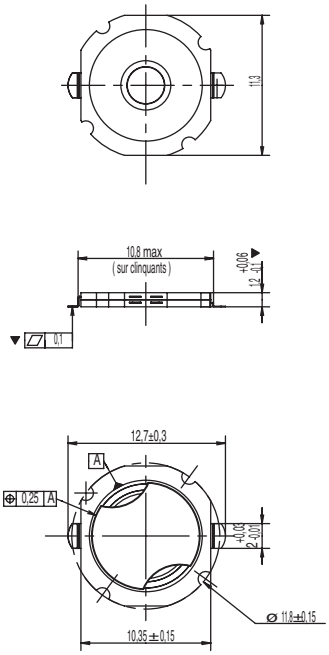
Dimensions are shown: mm
Specifications and dimensions subject to change

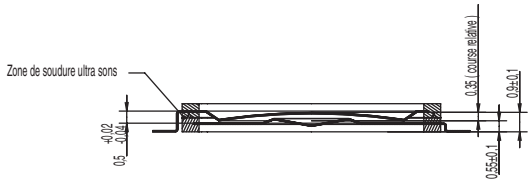
ED





EDM

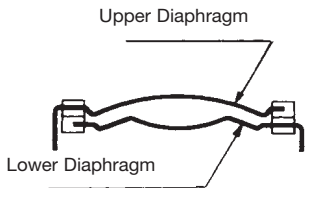




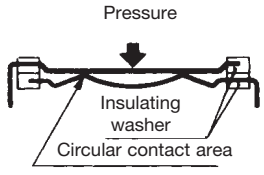
Switch Action Principal

The disc contact is essentially made of two separate conductive dome diaphragms separated by an insulated material.

The upper diaphragm is shaped so that under pressure it collapses suddenly and establishes contact with the lower diaphragm.



Switch in resting position



Switch in active position

First Angle Projection

Dimensions are shown: mm
Specifications and dimensions subject to change