



Keypads with
keycaps



addix
ELASTOMERIC COMPONENTS

KEYPADS WITH KEYCAPS

Keypads with keycaps are based between the upper box and the printed circuit. They assure for the contact with the PCB.

Keypads with keycaps are most commonly found on appliances used in the telecoms and automotive industry in electrical appliances and in cash transaction devices.

TECHNICAL CHARACTERISTICS

Material

- Base material for the keypad : silicone.
- Material of the keycaps :
 - PMMA, ABS, ...
 - Polyester or Polyamide for "In-Mould Decoration" (IMD).
- Non flammability : UL94 HB, HB-standard and V0.
- Standards : UL, CSA, MIL.

Mechanical specifications

- Hardness : 40 - 80 Shore.
- Stroke/travel : 0.8 - 1.5 mm.
- Actuation force : 50 - 300 gr.
- Flexlife : 1,000,000 cycles.

Electrical specifications

DATA GIVEN FOR THE FUNCTION OF A PRINTED CIRCUIT WITH A GOLD PLATED OR A NICKEL PLATED SURFACE.

- Type of contacts : Carbon, silver, gold.
- Cut through resistance : 0.06 W max.
- Contact resistance : 1 to 200 Ohms/ 12 VDC.
- Insulation resistance : 100 mOhms/ 250 VDC.
- Contact rebound time : 3 - 10 msec.

Environmental specifications

- Operating temperature : -20°C to +85°C.
- Storage temperature : -40°C to +125°C.
- Resistance : ozone, UV and chemical products.

Options

- Contact types : carbon pills, printed carbon contacts or metal contacts.
- Possibility of different colours.
- Possibility of " day & night " design for the backlighting of symbols in dark conditions.
- Printing per serigraphy or lacquering and laser etching.

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