

TECHNICAL DATASHEET

TOUCH SCREEN

MAIN SPECIFICATIONS

MAX. CIRCUIT CAPACITY:	5 volts DC, 35 milliamps
VISUAL LIGHT TRANSMISSION:	a) film to film – 75% at a wavelength of 55 nm b) film to glass – 80% at a wavelength of 55 nm
ACTIVATION FORCE:	10 g ~ 100 g (depending on stylus or finger pressure)
LINEARITY:	< 1.5%
LIFE EXPECTANCY:	> = 1,000,000 touches (matrix, 4-wire and 8-wire resistive types) > = 35,000,000 touches (5-wire resistive type) > = 225,000,000 touches (capacitive type)
WRITE LIFE EXPECTANCY:	> = 100,000 touches (matrix, 4-wire and 8-wire resistive types) > = 5,000,000 touches (5-wire resistive type)
OPERATING TEMPERATURE:	-10°C ~ +60°C
STORAGE TEMPERATURE:	-20°C ~ +70°C
OPTIONS:	- glass thickness 0.7 mm, 1.1 mm, 1.8 mm, 3.0 mm
OPTIONS	- glass type: Normal and chemically strengthened glass

PRODUCT TYPE

Film to film and film to glass types with matrix, analog resistive, chemically strengthened glass and capacitive types

ITO TOUCH SCREEN STANDARD PRODUCTS

Touch screen type:

- 4-wire, 5-wire and 8-wire
- Analog resistive type, capacitive type

Clear hard coating and anti-glare hard coating with or without anti-newton rings

Choice of RS-232 or USB

MEMBRANE KEYBOARDS

NO TACTILE FEEDBACK

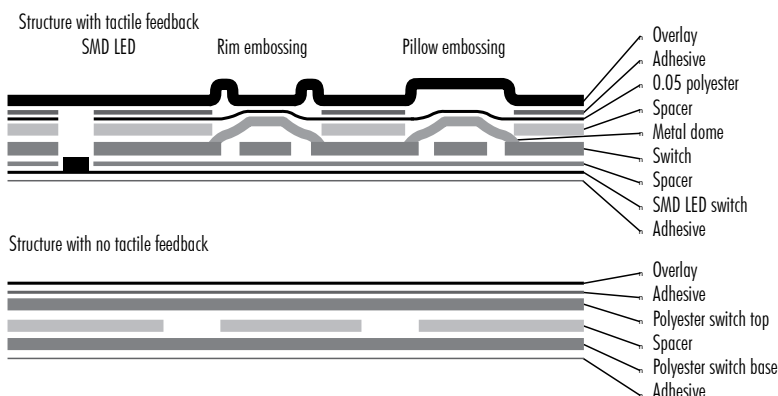
METAL DOME

Electrical specifications:

Rating	30 V DC 30 mA max.	30 V DC 30 mA max.
Contact bounce	< 1 millisecond nominal 5 milliseconds max. Dependent on contact actuation	< 10 milliseconds nominal 50 milliseconds max. Dependent on contact actuation
Contact material	Silver to silver	Gold to silver
Resistance	15-25 ohms nominal 100 ohms max. Dependent on circuit configuration	15-25 ohms nominal 100 ohms max. Dependent on circuit configuration
Open circuit resistance	30 Gohms	30 Gohms

Physical specifications:

Life expectancy	> 5 million actuations	> 1 million actuations
Contact pressure	1-2 N typical	3-4 N typical
Switch travel	0.125 to 0.200 mm typical	0.500 to 0.700 mm typical
Operating temperature	-40°C to +85°C	-10°C to +75°C



Optimum assembly adhesion will only be achieved if the surface is clean, dry and free from grease. A suitable cleaner is IPA.

The ideal affixing temperature is between 21°C and 38°C.