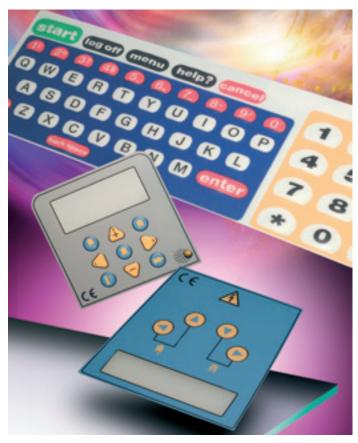
Membrane & Rubber Keypads



Membrane Keypads

- Graphic overlay only or full switching membrane
- Metal or polydome contacts
- Tactile or non-tactile feel
- Integral SMD LEDS
- LCD windows
- ESD/RFI shielding
- Insertable legend options

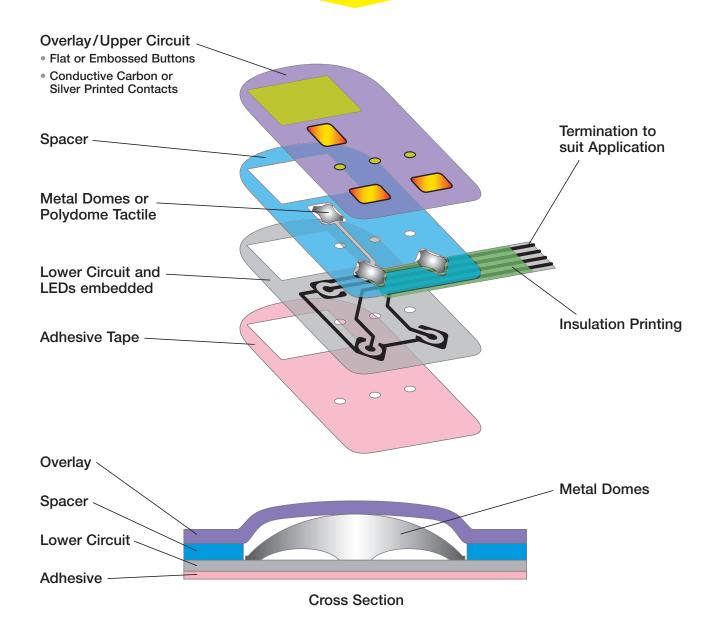
Rubber Keypads

- Backlighting options
- Various coatings eg epoxy, polyurethane
- Harder rubber options to give 'plastic' feel
- · Various travel/operating force options
- Combination with tactile switches
- Wide variation of colours and designs
- Plastic key tops available





Membrane Keypad Structure

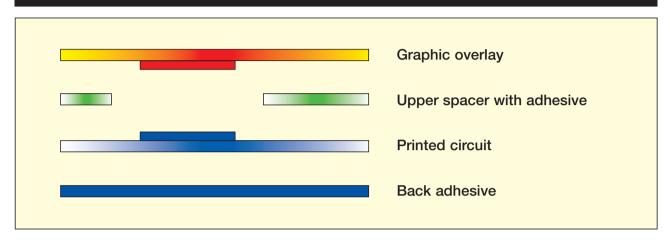


Reference Materials		
Overlay	Polycarbonate Film (PC) – Matt or Glossy surface Thickness (mm): 0.075, 0.125, 0.175, 0.250, 0.375, 0.500 Polyester Film (PET) with UV-cured texture coating – Matt or Glossy surface Thickness (mm): 0.15, 0.20, 0.25	
Circuit Layer	Polyester Film (PET) – Thickness (mm): 0.075, 0.100, 0.125	
Conductive	Carbon Ink, Conductive Silver Paste or Metal Domes	
Spacer	Polyester Film (PET)	
Adhesive	Adhesive Double Tape	

Standard Specification for Membrane Keypad		
Contact Resistance	10 ~ 500 Ohms	
Operation Voltage	<35 VDC	
Operation Current	<100 mA	
Open Circuit Resistance	>10 Meg Ohms	
Operation Force	30g ~ 500g	
Operation Temperature	-20°C ~ +70°C	
Operation Temperature	-20°C ~ +70°C	
Life Expectancy	5 x 10 ⁵ ~ 10 x 10 ⁵ cycles	
Switch Stroke (travel)	0.1mm ~ 0.6mm	
Contact Bounce	5 ~ 30 mSec	

Membrane Switch Structure

Flat Type (Non-Tactile)



Tactile Type

