



## Silicon Keypads with Plastic Keytops

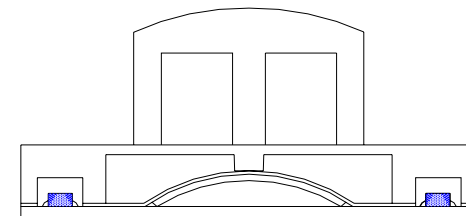


Design Guide

## Advantages

- Excellent hardtop feel
- Multi-color possible
- Life-time abrasion resistance
- Water-proof, anti-dust & humidity, low noise
- Excellent light transmission
- Good ESD protection
- Partial plating on bottom of keytop
- Key height < 6mm

P+R 2



## General guidelines

### Tolerances

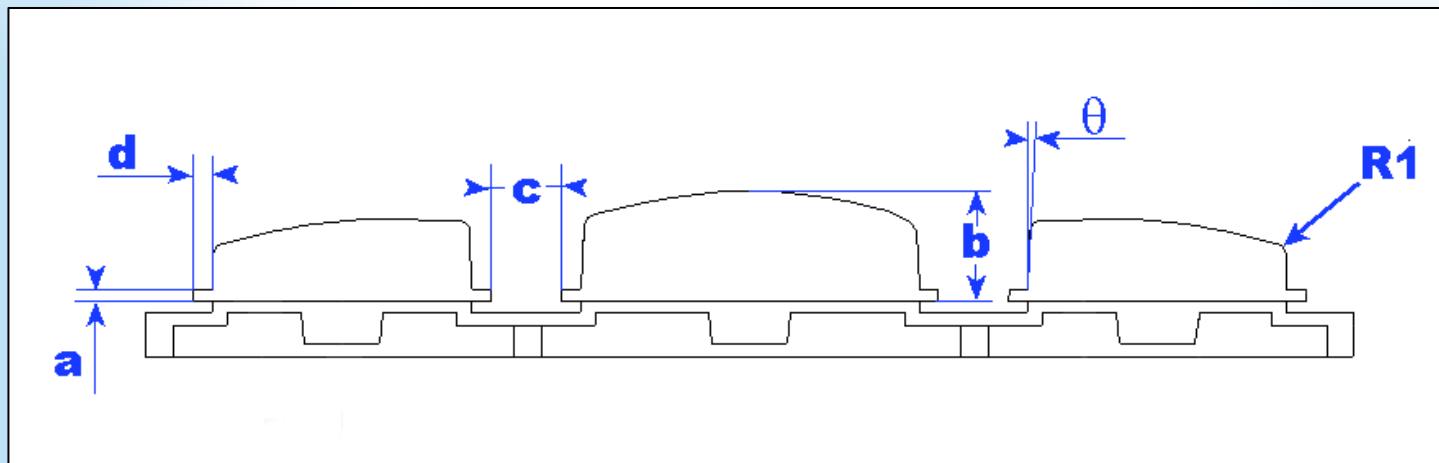
- Key dimension:  $\pm 0.05$  mm
- Key position tolerance:  $\pm 0.2$  mm
- Keypad dimensions:  $\pm 0.2$

Flash after punch: 0.25mm max.

Materials: PC, PMMA, ABS

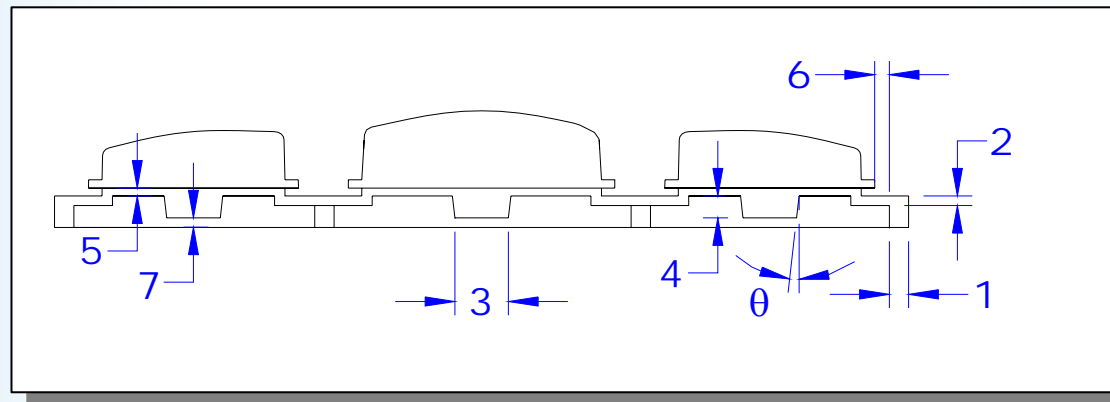
## Keytops

	<u>Min(mm)</u>	<u>Max(mm)</u>	<u>Preferred</u>
(a) Thickness, key flange:	0.15	~	0.35
(b) Key height:	1.0*	6*	2.5
(c) Spacing between flanges:	0.8*	~	1.5
(d) Width, key flange:	0.0	~	0.5
R1 Keytop outer radius	R0.2	~	~
R2 Keytop inner radius:	R0.2	~	~
( $\theta$ ) Draft angle:	1°	~	3°<

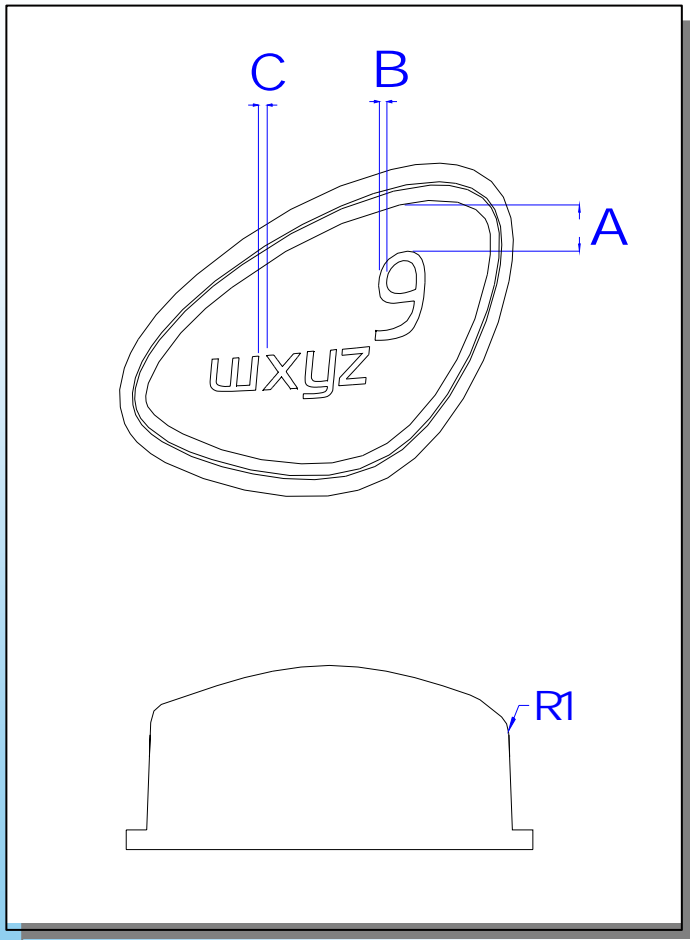


## Rubber keypad

	Min(mm)	Max(mm)	Preferred	PD = Poly Dome MD = Metal Dome
(1) Width, rubber wall:	0	~	0.6	
(2) Thickness, flex:	0.15	~	0.2	
(3) Plunger dia.:	-	-	2.5(PD)	
	-	-	2.0(MD)	
(4) Clear depth:	0.35	~	0.5(MD)	
(5) Thickness, rubber top:	0.15	~	0.25	
(6) Width, flex:	0.5	~	1	
(7) Stroke:	-	-	0.1(PD)	
	-	-	0.0(MD)	
(θ) Draft angle:	2°	~	3°	



## Printing



- |                                     |                                |
|-------------------------------------|--------------------------------|
| (a) Legend to Key Top Edge:         | 0.2mm + (R1) Min.              |
| (b) Line Width:                     | 0.2mm Min.                     |
| (c) Character-to-Character Spacing: | 0.2mm Min.                     |
| (d) Printing Accuracy:              | +/-0.2mm in X and Y direction. |