CRS Series Standard Conductive Rubber Switchpads

The standard Conductive Rubber Switchpad (CRS) provides an economical solution. No longer do you need to pay for the cost of designing a part and tooling a custom mold. The pads are available in four standard colors, custom colors are also available. Silk screen legends are possible. Please consult factory for details on custom colors and silk screen legends.

The 6 x 6 switchpad is designed with cut lines between each individual switchpad to allow you to configure your own custom conductive rubber matrix. Pull thru tabs allow you to anchor the keys directly onto the PCB. The 6 x 6 eliminates the need to spend thousands of dollars on prototype mold tooling just to prototype a design.

Materials	
Insulator	Silicone rubber
Contact surface	Carbon impregnated Silicone
UL flammability	HB (standard)

Electrical data	
Contact type	Carbon
Contact arrangement	1 make contact = SPST, NO
Switching power max.	0.06 Watts
Contact resistance[1]	<200 Ohms
Insulation resistance (500 V DC)	$>10^{12}\ \Omega$
Contact bounce	<12 m sec

Mechanical data	
Durometer	50 shore A
Travel to electrical make	1.0 mm (0.0394 inch)
Operating force	190 grams
Operating life	10^6 operations

Further data	
Operating temperature	– 30°C to + 180°C
Storage temperature	– 30°C to + 250°C
Highly resistant to:	Majority of chemicals

[1] Contact resistance is based on either gold or carbon silk screen circuit board contact pattern.
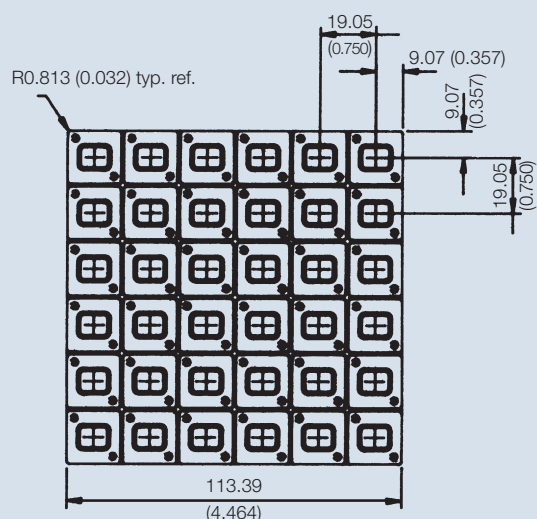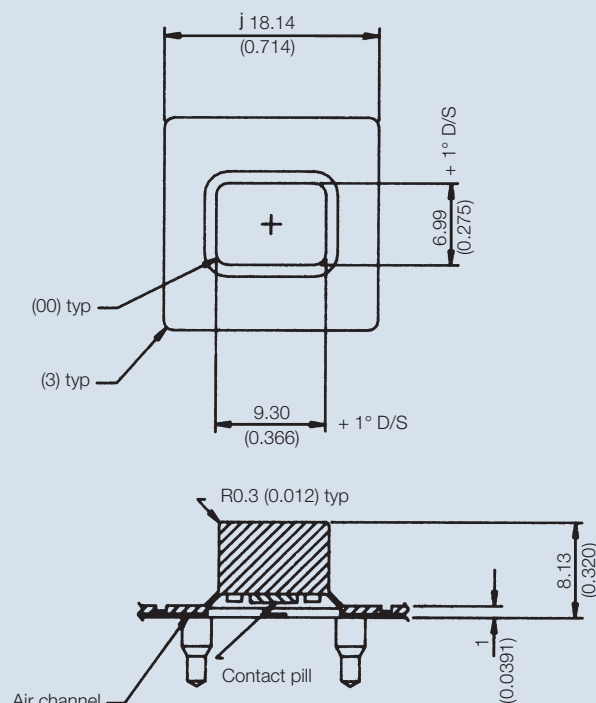[2] See Conductive Rubber Application Guide for additional information.

Ordering code		1	2	3	4
Example:		CRS	0206	19	N
1	**Designation:** CRS				
2	**Switchpad configuration:** 0106 = rectangular 6 x 6 0206 = round 6 x 6				
3	**Keytop or keypad color:** 01 = black, 22 milky white 04 = grey, 99N 19 = beige				
4	**Legend*:** N = no legend				

For silk screen legends or custom keypad colors, please consult factory.

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Dimensional Drawings

Standard 6 x 6 rectangular

j 18.14 (0.714)

+ 1° D/S

6.99 (0.275)

(00) typ

(3) typ

9.30 (0.366) + 1° D/S

R0.3 (0.012) typ

8.13 (0.320)

1 (0.0391)

Air channel

Contact pill

19.05 (0.750)

9.07 (0.357)

9.07 (0.357)

R0.813 (0.032) typ. ref.

19.05 (0.750)

113.39 (4.464)

Standard 6 x 6 round

j 15.6 (0.614)

[9.5 (0.375) + 1° D/S

R0.81 (0.032) typ.

9.30 (0.366) + 1° D/S

R0.3 (0.012) typ

8.13 (0.320)

1 (0.0391)

Air channel

Contact pill

16.5 (0.650)

7.8 (0.307)

7.8 (0.307)

16.5 (0.650)

j 98.1 (3.864)

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