imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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SERIES SPECIFICATIONS

Series	Active area	Sensor overall width	Sensor overall length	Tail length	Tail width
FSP01CE	13.00 x 100.00mm	20.00 x 109.00mm	184.00mm	75.00mm	10.00mm
FSP02CE	13.00 x 50.00mm	20.00 x 59.00mm	134.00mm	75.00mm	10.00mm
FSP03CE	ø16.00mm in / ø36.00mm o	ut ø46.00mm	95.80mm	49.80mm	11.00mm

CHARACTERISTICS

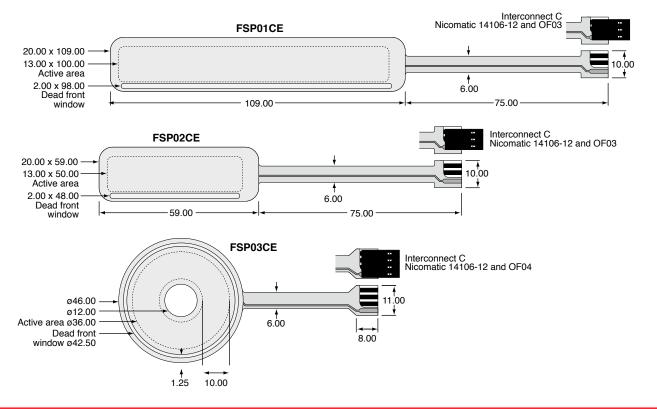
Thickness		Characteristic	Description	Value	
	(inc. 0.05mm adhesive)	Actuation force	Force to reach $10M\Omega$, Average of 100 samples	< 20g	
Mode	Thru	Force range	8 8 8 8	Up to 1kg	
Trace width	0.25mm		achieved with custom sensor and actuation meth- ods		
Trace pitch	0.50mm	Long term drift	1kg for 48hrs, Per log time	< 2%	
Spacer height	0.125mm	Single part repeatability	100 actuations of 1kg, 1 standard deviation/mean	5%	
		Part to part repeatability	100 sensors same batch, 1 std. deviation/mean	±10%	
		Low temp. storage	-20°C for 250hrs, Avg. change in resistance of 5 sensors	2%	
		High temp. storage	+85°C for 250hrs, Avg. change in resistance of 5 sensors	9%	
		High humidity storage	+85°C/85%RH for 250hrs, Avg. change in resis- tance of 5 sensors	10%	
		Lifecycle durability	(10M) 1kg force at 3Hz, Avg. change in resistance of 4 sensors	4%	
		Hysteresis	100 actuations of 1kg, Avg. change in resistance of 100 samples	5%	
0		Operational temp. range	100 cycles at 0.5kg,	–20 to +60°C	
		Linear resistance	Resistance between pins 1 & 2, Average of 100 parts same batch	FSP01CE: 1.25k, ±15% FSP02CE: 0.76k, ±15% FSP03CE: ±15%	

Note: All values typical, and quoted at 10N applied force unless otherwise stated. Force dependant on actuation interface, mechanics, touch location, and measurement electronics.

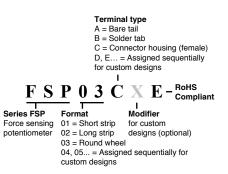
FSP Series

Force Sensing Potentiometer

DIMENSIONS



ORDERING INFORMATION





rev 5/18-2