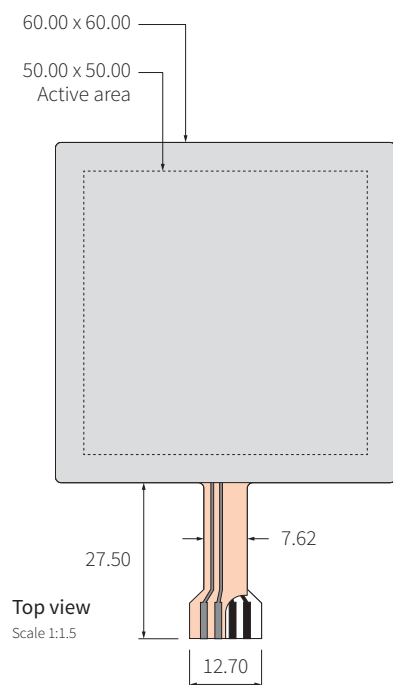


## 3D Single-Touch Trackpad

## TPE-800 *PadZ*

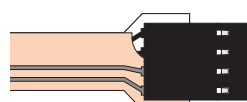


### Mechanical data

Active area	50.00 x 50.00mm	Thickness (inc. 0.05mm adhesive)	0.85mm
Mode	Thru	Spacer height	0.225mm
Sensor overall width	60.00mm	Tail width	(max.) 12.70mm
Sensor overall length	87.50mm	Tail length	27.50mm

### Interconnect option and part number

#### TPE-800C



Nicomatic crimp P/N# 14106-12  
with Nicomatic housing P/N# OF04

### Device characteristics

Characteristic	Description	Value	Notes
Actuation force	Force to reach 10MΩ	< 20g	Average of 100 samples
Force range	linear region of log/log	Up to 1kg	Higher forces can be achieved with custom sensor and actuation methods
Long term drift	1kg for 48hrs	< 2%	Per log time
Single part repeatability	100 actuations of 1kg	5%	1 standard deviation/mean
Part to part repeatability	100 sensors same batch	+/- 10%	1 standard deviation/mean
Low temp. storage	-20°C for 250hrs	5%	Avg. change in resistance of 5 sensors
High temp. storage	+85°C for 250hrs	1%	Avg. change in resistance of 5 sensors
High humidity storage	+85°C/85%RH for 250hrs	5%	Avg. change in resistance of 5 sensors
Lifecycle durability (1M)	1kg force at 3Hz	4%	Avg. change in resistance of 4 sensors
Hysteresis	100 actuations of 1kg	5%	Avg. change in resistance of 100 samples
Operational temp. range	100 cycles at 0.5kg	-20 to +60°C	
Linear resistance	Resistance between pins 1 and 2, or 3 and 4	300Ω +/- 15%	Average of 100 parts same batch

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

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