

CapaciTouch®

Fully customized Projected Capacitive Touchscreens

Mechanical and Dimensional Characteristics

Standard Construction:	Three layer Construction (Glass/Film/Film)
Other Constructions available:	Contact factory for other construction options
Diag. Sizes:	2" – 24" (Standard or wide aspect ratio)
Borders:	As narrow as 0.15", 0.25" on tail side
Tail:	Bonded tail(s)
Connectors:	ZIF (Zero Insertion Force type)
ZIF Contacts:	Material: Gold plated copper or Carbon coated silver
	Spacing: 0.5 mm, 1.0 mm, 0.05" and 0.10"
Input Method:	Finger, Gloved hand or Stylus
Activation Force:	25 grams
Life:	Over 100 Million touches at a single location
Dimensional Tolerances:	Overall size ± 0.015 inch Tail length ± 0.050 inch Thickness ± 0.010 inch Layer to layer registration: ± 0.030 inch Printing accuracy: ± 0.010 inch Die cutting accuracy: ± 0.010 inch
Surface Hardness:	Better than 7H for glass top version
Chemical Resistance:	Industrial chemicals acetone, ethylene, chloride, isopropyl alcohol, hexane, turpentine, unleaded gasoline, diesel fuel, motor oil, transmission fluid, antifreeze, Food service chemicals vinegar, coffee, tea, grease, cooking oil, salt and most commercial cleaners including ammonia-based glass cleaner and laundry detergent.

Optical Characteristics:

Light Transmission*	>80
Reflection*	Customized (as low as 4%)
Clarity:	99 Typical
Haze:	Less than 2.5 Typical

* ASTM STD D 1003

Electrical performance

Linearity:	Absolute
Calibration:	Not required
Input Voltage:	3 to 5 Volts
Current:	50 milli-Amp (Max.)
ESD:	15KV

Environmental Characteristics

Temperature and Humidity:

	Operating	Storage
Temp	-20C to 70C	-40C to 80C
Humidity	95% at 50C	95% at 50C

Contact factory for environmental requirements outside of the standard range

Sealing:	To NEMA 4, 12 and IP 65 standards
Altitude:	Operating - 40,000 ft Storage - 40,000 ft
Warranty:	Limited 3 years
Controllers:	TPI offers EETI controllers and chip-sets