# ReliaTouch®

Extremely reliable 5-wire analog resistive touchscreen solution for demanding applications

#### **Mechanical and Dimensional Characteristics**

**Standard Construction:** Three layer Construction (Glass/Film/Film)

**ITO Glass Construction:** Two layer Construction (Glass/Film)

Other Constructions available: ELTT, SLRT, EMI, Buffer Layer

**Diag. Sizes:** 5.7" – 32" (Standard or wide aspect ratio)

**Borders:** As narrow as 0.25"

Tail: Integrated tail or Bonded tail

**Connectors:** Standard connectors are 2.54 mm (0.10") **FCI** (Berg), **Tyco** (AMP) and

Molex attached to integrated or bonded tails

**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, Stylus, Prosthetic Limb

**Activation Force:** Stylus 20 grams, Finger 50 grams

(Contact factory for custom activation force)

**Life:** Over 5 Million touches at a single location

(Contact factory for extended life version)

**Dimensional Tolerances:** Overall size  $\pm$  0.015 inch

Tail length  $\pm$  0.050 inch Thickness  $\pm$  0.010 inch

Layer to layer registration: ± 0.030 inch

Printing accuracy:  $\pm$  0.010 inch Die cutting accuracy:  $\pm$  0.010 inch

**Surface Hardness:** Better than 3H, others available

**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,

ammonia-based glass cleaner and laundry detergent.

**Optical Characteristics:** 

	Three Layer Construction	Two Layer Construction	Optically Enhanced Construction
Light Transmission*:	78	81	91
Reflection*:	20	20	3.5
Clarity:	99	99	99
Haze:	2.5	0.9	2

grease, cooking oil, salt and most commercial cleaners including

<sup>\*</sup> ASTM STD D 1003, Values are for clear hardcoat finish

### **Electrical performance**

**Non-Linearity (Average):** Less than 1% in the optimized active area

Non-Linearity (Average): Less than 2% outside of the optimized active area

Non-Linearity (Maximum): Less than 3% Input Voltage: 2 to 5 Volts

**Current:** 50 mili-Amp (Max.)

**Sheet Resistance:** 300 Ohms/Square (Typical)

**Bounce:** 10 ms **ESD:** 15KV

### **Environmental Characteristics**

## **Temperature and Humidity:**

	Operating	Storage
Temp	0C to 50C	-20C to 70C
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 10,000 ft storage 30,000 ft

**Warranty:** Limited 1 year – extended warranty available

**Controllers:** Work with all industry standards controllers