



**Bergquist Part Number: 400333**

**Revision: A**

**Description: 3.5" 5-wire Resistive Touch Screen**

**Mechanical Dimensions and Construction.**

|                                | <b>Specification</b>               | <b>Remarks</b>       |
|--------------------------------|------------------------------------|----------------------|
| <b>Overall Dimensions</b>      | 3.309" x 2.539", 84.04mm x 64.50mm | +/- .015", +/- .20mm |
| <b>Overall Thickness</b>       | .055", 1.4mm                       | +/- .008", +/- .20mm |
| <b>Viewable Area</b>           | 2.915" x 2.216", 74.04mm x 56.28mm | +/- .015", +/- .20mm |
| <b>Active Area</b>             | 2.836" x 2.137", 72.04mm x 54.28mm | +/- .015", +/- .20mm |
| <b>Nominal Glass Thickness</b> | .043", 1.1mm                       |                      |

\*See mechanical drawing for additional specification

**Environmental Specification**

|   | <b>Specification</b>  | <b>Remarks</b>                            |
|---|---|---|
| <b>Operating Temperature</b>              | -10° C ~ +70° C   |   |
| <b>Storage Temperature</b>                | -40° C ~ +80° C   |   |
| <b>Constant Temperature/<br/>Humidity</b> | 70° C / 80% RH / 500 Hrs.   | Tested at ambient temperature after cycle |
| <b>Thermal Shock</b>                      | -40° C ~ +80° C 60 min/cycle/100 times  | Tested at ambient temperature after cycle |
| <b>Chemical Resistance</b>                | Acetone, methylene chloride, methyl ethyl ketone, isopropyl alcohol, mineral spirits, unleaded gasoline, diesel fuel, antifreeze, vinegar, coffee, tea, cooking oil, most commercial cleaners including laundry detergent, and ammonia based glass cleaners |   |

**Optical Characteristics**

|                           | <b>Specification</b> | <b>Remarks</b> |
|---------------------------|----------------------|----------------|
| <b>Light Transmission</b> | >75%                 | Anti-Glare     |
| <b>Haze</b>               | <5%                  | Anti-Glare     |

**Linearity Characteristics**

|                    | <b>Specification</b> | <b>Remarks</b>                                   |
|--------------------|----------------------|--|
| <b>Direction X</b> | <1.5%                | Linearity is the value of the max. error voltage |
| <b>Direction Y</b> | <1.5%                | Linearity is the value of the max. error voltage |



## Durability

|                           | <b>Specification</b> | <b>Remarks</b>     |
|---------------------------|----------------------|--------------------|
| <b>Activations</b>        | 35 Million           |                    |
| <b>Activation Force</b>   | ≤50g Stylus          |                    |
| <b>Top Film Hardness</b>  | 3H                   | ASTM D3363         |
| <b>Tail Bond Strength</b> | >13 lbs              | Straight Tail Pull |

## Electrical Specifications

|                                 | <b>Specification</b>  | <b>Remarks</b> |
|---------------------------------|-----------------------|----------------|
| <b>Operating Voltage</b>        | 5.5V or Less          |                |
| <b>Insulation Resistance</b>    | ≥ 20 MΩ at 25 V(DC)   |                |
| <b>Electrostatic Protection</b> | 20 discharges at 15Kv | EN 61000-4-2   |

## Warranty

5-year limited warranty

## Mechanical Drawing

\*\*See attached drawing