Bergquist Part Number: 400443

Revision: A

Description: 12.1" Surface Capacitive Touch Screen

Mechanical Dimensions and Construction.

	Specification	Remarks
Overall Dimensions	10.724" x 8.106", 272.40mm x 205.90mm	+/- .020", +/- .50mm
Overall Thickness	.094", 2.3mm	+/- .008", +/- .20mm
Viewable Area	10.020" x 7.598", 254.50mm x 193.00mm	+/- .020", +/- .50mm
Active Area	9.823" x 7.402", 249.50mm x 188.00mm	+/- .020", +/- .50mm
Nominal Glass Thickness	.073", 1.85mm	EMI Shielded

*See mechanical drawing for additional specification

Environmental Specification

	Specification	Remarks
Operating Temperature	-20° C ~ +70° C	
Storage Temperature	-50° C ~ +85° C	
Constant Temperature/ Humidity	70° C/ 90% RH/ 500 Hrs.	Tested at ambient temperature after cycle
Thermal Shock	-40° C ~ +70° C 60 min/cycle/100 times	Tested at ambient temperature after cycle
Chemical Resistance	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	10 minutes at room temperature

Optical Characteristics

	Specification	Remarks
Light Transmission	>90%	Clear
Haze	<5%	Clear

Linearity Characteristics

	Specification	Remarks
Direction X	<1.0%	Linearity is the value of the max. error voltage
Direction Y	<1.0%	Linearity is the value of the max. error voltage

Durability

	Specification	Remarks
Activations	200 Million	
Activation Force	≤10g Stylus	
Top Film Hardness	7H	ASTM D3363
Tail Bond Strength	>13 lbs	90° Tail Pull/EMI Shield

Electrical Specifications

	Specification	Remarks
Operating Voltage	5V to 16V or USB	
Insulation Resistance	≥ 20 MΩ at 25 V(DC)	
Electostatic Protection	20 discharges at 15Kv	EN 61000-4-2

Warranty

2-year limited warranty

Mechanical Drawing

**See attached drawing