1.00 mm, Types 0, I, II and III Open Top



## **Physical**

<b>Body Material:</b>	Polyethersulfone (PES)
Flammability:	UL 94V-0
Color:	Black
Alignment Plate Material:	Liquid Crystal Polymer (LCP)
Flammability:	UL 94V-0
Color:	Black
<b>Contact Material:</b>	Beryllium Copper
Plating:	30μ" (0.76 μm) Gold over 50μ" (1.3 μm) Nickel
<b>Other Metal Parts:</b>	Stainless Steel

## Electrical

 Insulation Resistance:
 >1000MΩ at 500 Vdc

 Withstanding Voltage:
 500 Vrms at sea level

 Initial Contact Resistance:
 <50mΩ measured at 1.0 mA applied current</td>

 Current Rating:
 1.0 A max @ 25°C

### Environmental

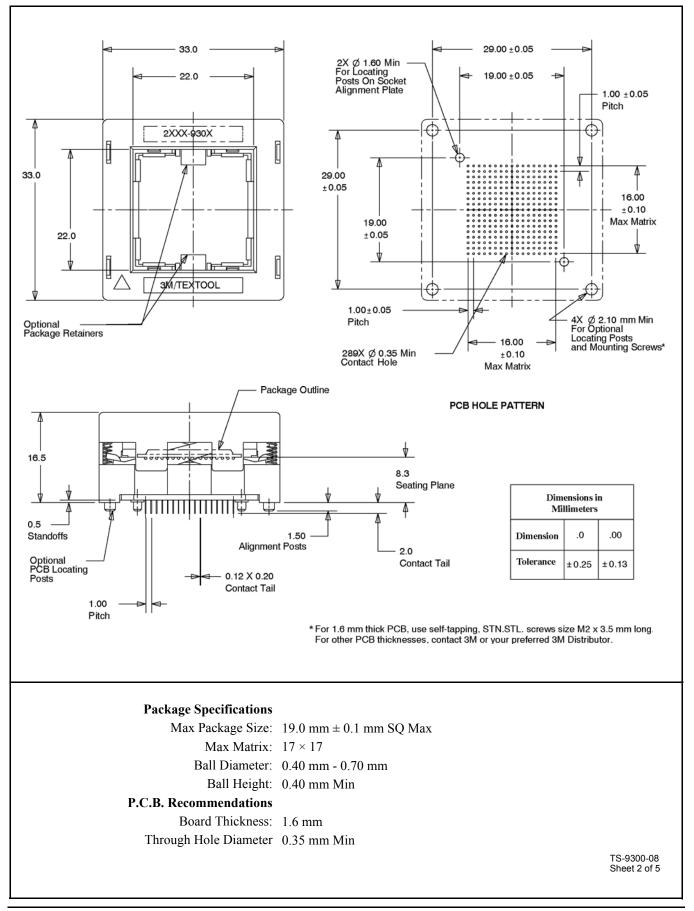
**Operating Temperature Rating:** -55°C to +150°C

## Mechanical

Durability:20,000 actuations (10,000 devices load/unload) at room temperatureInitial Contact Force:17 gf (0.17N) Nom for 0.6 mm diameter solder ball<br/>14 gf (0.14N) Nom for 0.5 mm diameter solder ballInitial Actuation Force:Type II-5Kgf @ full pin countContact Wiper Gap - Fully Open:0.85 mm Nom

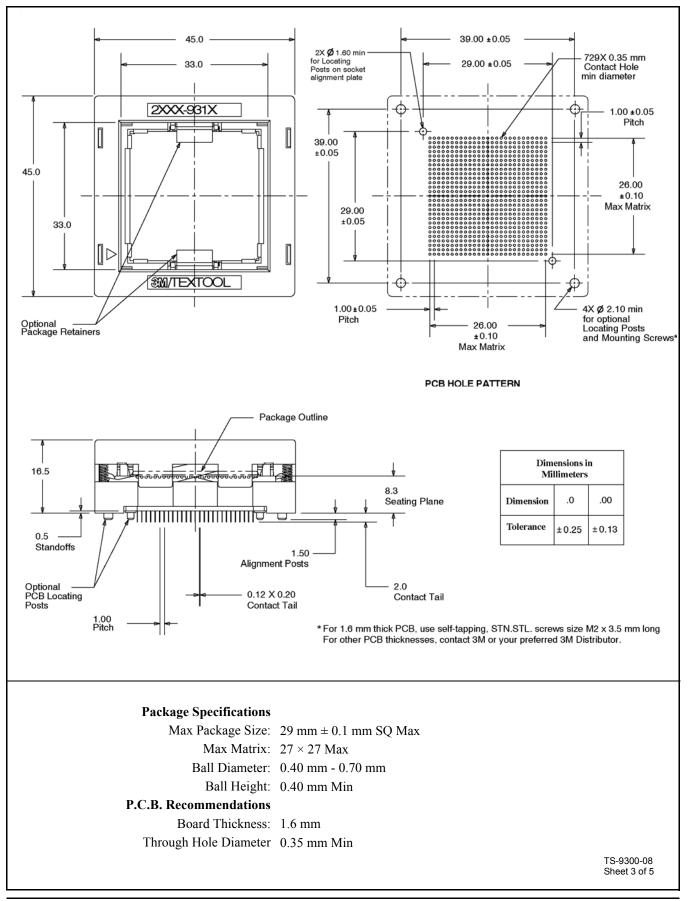
\* RoHS = Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment "RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or prolybromiated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

1.00 mm, Types 0, I, II and III Open Top



Type 0

1.00 mm, Types 0, I, II and III Open Top



Type I

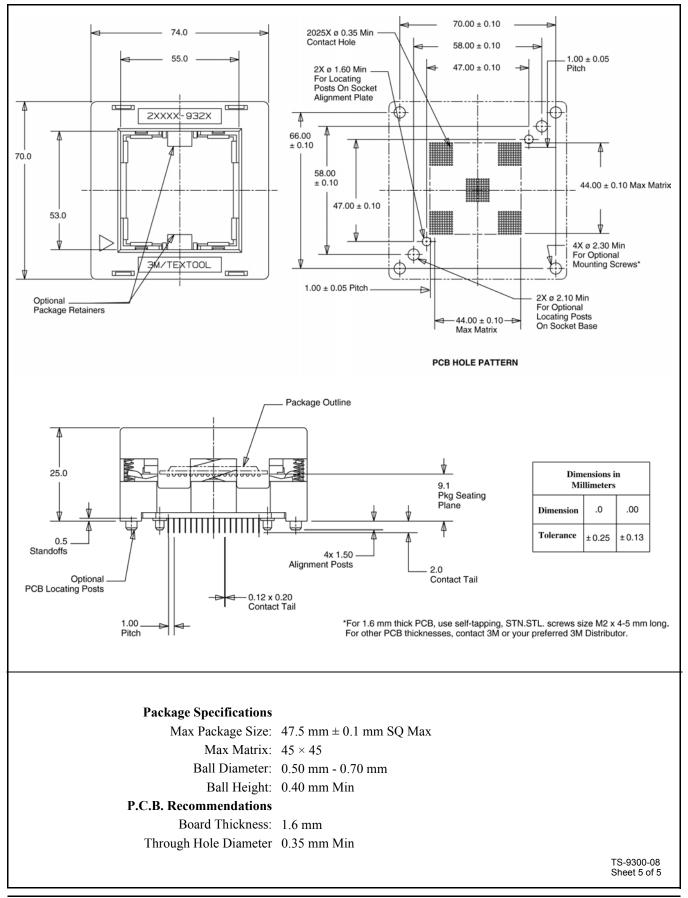
1.00 mm, Types 0, I, II and III Open Top

57.90 ± 0.10 1521 Ø 0.35 Min Contact Hole 62.0 52.00 ± 0.10 45.0 1.00 ± 0.05 43.00 ± 0.10 Pitch 2X - 1.60 Min For Locating Posts On Socket Alignment Plate 胁 2XXXX-932X 4 57.90 ± 0.10 62.0 52.00 ± 0.10 38.00 ± 0.10 Max Matrix 43.00 ± 0.10 45.0 4X - 2.10 Min For Optional 3M/TEXTOOL Mounting Screws\* ¢ 1.00 ± 0.05 Pitch 2X <sup>-</sup> 2.10 Min Optional For Optional Locating Posts On Socket Base Package Retainers 38.00 ± 0.10-Max Matrix PCB HOLE PATTERN Package Outline 24.0 Dimensions in 2 9.1 Millimeters Pkg Seating Plane .0 .00 Dimension Tolerance ± 0.25 ±0.13 0.5 Standoffs 4x 1.50 Alignment Posts 2.0 Contact Tail Optional PCB Locating Posts 0.12 x 0.20 Contact Tail \* For 1.6 mm thick PCB, use self-tapping, STN.STL. screws size M2 x 3.5 mm long 1.00 ₽₽ Pitch For other PCB thicknesses, contact 3M or your preferred 3M Distributor. **Package Specifications** Max Package Size:  $40.0 \text{ mm} \pm 0.1 \text{ mm} \text{ SQ Max}$ Max Matrix:  $39 \times 39$ Ball Diameter: 0.40 mm - 0.70 mm Ball Height: 0.40 mm Min P.C.B. Recommendations Board Thickness: 1.6 mm Through Hole Diameter 0.35 mm Min TS-9300-08 Sheet 4 of 5

Type II

## 3M<sup>™</sup> Textool<sup>™</sup> BGA Test & Burn-In Sockets

1.00 mm, Types 0, I, II and III Open Top



Type III

### **Important Notice**

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