



110-XX-XXX-41-001000
See Application note for Insulator Details

Technical drawing showing the dimensions and components of the 110-XX-XXX-41-001000 insulator assembly.

Top View Dimensions:

- A: Overall width
- B: Overall height
- C: Height of the central section
- .100 (TYP): Distance between the central section and the outer edges

Side View Dimensions:

- .146: Distance from the bottom edge to the top of the central section
- .095: Distance from the top of the central section to the top of the outer section
- .110: Distance from the top of the outer section to the top of the central section
- .165: Distance from the top of the central section to the top of the outer section
- .125: Distance from the bottom edge to the top of the central section
- .020 DIA.: Diameter of the central hole

Legend:

- .015-.025
- ▨ .010 * .018

General Info	
Description ¹ :	Standard Solder Tail DIP Socket
Type:	DIP
Category:	Dual In Line Socket
Mounting Style:	Through Hole Solder Mount
Tail Type:	Solder Tail
# Pins:	20
Packaging:	Packaged in Tubes
Frame Type:	Open Frame
ECCN:	Contact Factory
HTSUS:	8536.90.4040
Product Lifecycle:Active	
Country Of Origin:USA	

110-88-320-41-001000- SPECIFICATIONS

Environmental Specs	
Temperature Range ² :	-55/+125° C
Shock ³ :	No Elect. Discontinuity > 1µs @ 50g
Vibration ⁴ :	No Elect. Discontinuity > 1µs @ 10-2000HZ, 15 G
Moisture Sensitivity Level (MSL):	1 (Unlimited)
REACH Status:	REACH Unaffected

Mechanical Specs	
Mechanical life (Durability) ⁵ :	1,000 Cycles Minimum

Materials	
Loose Pin/Receptacle # (Material):	1001 (Brass Alloy)
Shell Plating:	300 µ" (60/40)Tin/Lead over 50 µ" Nickel
Inner Contact #:	30
# Contact Fingers:	4
Inner Contact Material:	Beryllium Copper
Inner Contact Plating:	100 µ" Tin/Lead over 50 µ" Nickel
Insulator Material:	High Temp Thermoplastic

Technical Specs	
Pitch:	.100" (2,540mm)
A Dim:	1.400" (35,560mm)
B Dim:	.300" (7,620mm)
C Dim:	.400" (10,160mm)

Electrical Specs	
Current Rating ⁶ :	3 Amps
Contact Resistance ⁷ :	10 mΩ max.
Rated Voltage:	100 VRMS/150 VDC
Insulation Resistance:	10,000 MΩ min.
Dielectric Withstanding Voltage:	1,000 VRMS min.

NOTES:

1. Standard Tolerances:

Assembly tolerance: $\pm .010$ " (.25mm)

Insulator length: $\pm .005$ " (.13mm)

Insulator width: $\pm .005$ " (.13mm)

Insulator height: $\pm .005$ " (.13mm)

Pin Length: $\pm .005$ " (.13mm)

Pin Diameter: $\pm .002$ " (.051mm)

Pin Angle: $\pm 2^\circ$

Co-planarity of SMT connectors: .005" (.13mm) up to 1" (25.4mm) in connector length

Insulator Flatness: .005" (.13mm) up to 1" (25.4mm) in connector length

2. Per IEC 60512-11-(4,-9,-10,-12)

3. For discrete pin only. Per IEC 60512-6-3: Test 6c: Shock

4. For discrete pin only. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)

5. Receptacles are capable of 1,000 Minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish, along with application specific variables, will affect the life of a receptacle contact.

6. Per IEC 60512-5-1, Current Carrying Capacity (evaluated at 10° C Temp. Rise)

7.

ADDITIONAL NOTES AND SPECIFICATIONS

In the interest of improved design, quality and performance, Mill-Max reserves the right to make changes in its specifications without prior notice. Specifications and tolerances are provided wherever possible. The tolerance on dimensions of critical to function features is typically held tighter than the stated standard tolerances, such as press-fits, holes and lengths affecting the coplanarity of SMT products. Due to the wide variety of interconnects Mill-Max offers, the specific tolerances vary from product to product. If you need information regarding the tolerance of a particular part, please contact Technical Services.

RELATED LINKS AND DOCUMENTS

- [DIP Insulator Information](#)
- Environmental Compliance: <https://www.mill-max.com/rohs>