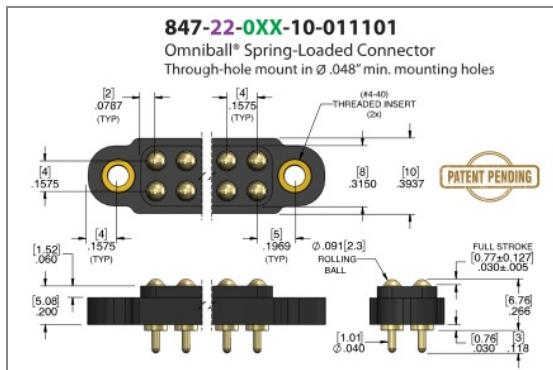




PRODUCT NUMBER: 847-22-012-10-011101

www.mill-max.com
DATA SHEET



847-22-012-10-011101- SPECIFICATIONS

General Info		Materials	
Description¹:	PCB Mount Spring-Loaded Header Rugged Vertical Mount Through-Hole	Loose Pin/Receptacle # (Material):	7945 (Brass Alloy)
Type:	Spring-Loaded	Shell Plating:	20 μ " Gold over Nickel
Category:	Omniball® Spring-Loaded Header	Inner Plating:	(Spring) 10 μ " Gold
Mounting Style:	Mounting Tabs with 4-40 Threaded Inserts	Insulator Material:	Nylon 4/6
# Pins:	12	Technical Specs	
Pitch:	.158" (4,001mm)	Initial Height:	.266" (6,756mm)
Rows:	Double Row	Stroke:	.030" (0,762mm)
Product Lifecycle:	Active	Electrical Specs	
Environmental Specs		Contact Resistance:	30 m Ω max.
Temperature Range²:	-55/+125° C	Rated Voltage:	100 VRMS/150 VDC
Shock³:	No Elect. Discontinuity > 1 μ s @ 50g	Insulation Resistance⁵:	10,000 M Ω min.
Vibration³:	No Elect. Discontinuity > 1 μ s @ 10-2000HZ, 15 G	Dielectric Strength:	1,000 VRMS min.
RoHS⁴:	Yes	Mechanical Specs	
Durability: 100,000 to 1,000,000 Cycles @ Mid-Stroke			

NOTES:

1. Standard Tolerances

Assembly tolerance: $+\/- .010"$ (.25mm)

Connector Length "L"

Connector Length "L"	Tolerance
$L \leq 2"$ ($L \leq 50.8$ mm)	$+\/- .005"$ ($+\/- .127$ mm)
$2 < L \leq 3"$ ($50.8 < L \leq 76.2$ mm)	$+.007 / -.006"$ ($+.178 / -.152$ mm)
$3 < L \leq 4"$ ($76.2 < L \leq 101.6$ mm)	$+.009 / -.007"$ ($.229 / -.178$ mm)
$4 < L \leq 5"$ ($101.6 < L \leq 127$ mm)	$+.011 / -.008"$ ($.279 / -.203$ mm)
$5 < L \leq 6.4"$ ($127 < L \leq 162.56$ mm)	$+.013 / -.009"$ ($.330 / -.229$ mm)

Insulator width: $+\/- .005$ (.13mm)

Insulator height: $+\/- .005$ (.13mm)

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

Pin Length: $+\/- .006$ (.15mm)

Pin Diameter: $+\/- .002$ (.051mm)

Pin Angle: $+\/- 2^\circ$

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

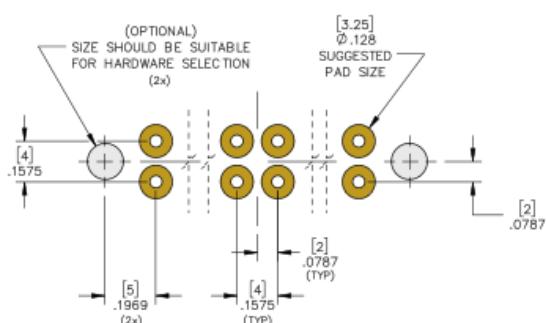
3. For discrete pin only. Per IEC 60512-6-3: Test 6c: Shock

4. Mill-Max products labeled with the RoHS symbol are compliant with all three ROHS Directives. All of our products previously described as RoHS (2002/95/EC) and RoHS-2 (2011/65/EC) are also compliant with RoHS-3 (2015/863/EU).

5. For discrete pin only. Per EIA-364-23C, Low Level Contact Resistance

ADDITIONAL PARTS, PACKAGING, & ASSEMBLY INFO

Suggested P.C.B. Footprint



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

Engineering Notebook: (<https://www.mill-max.com/engineering-notebooks/introduction-to-spring-loaded-pogo-pins-connectors>)

Environmental Compliance: (<https://www.mill-max.com/rohs>)