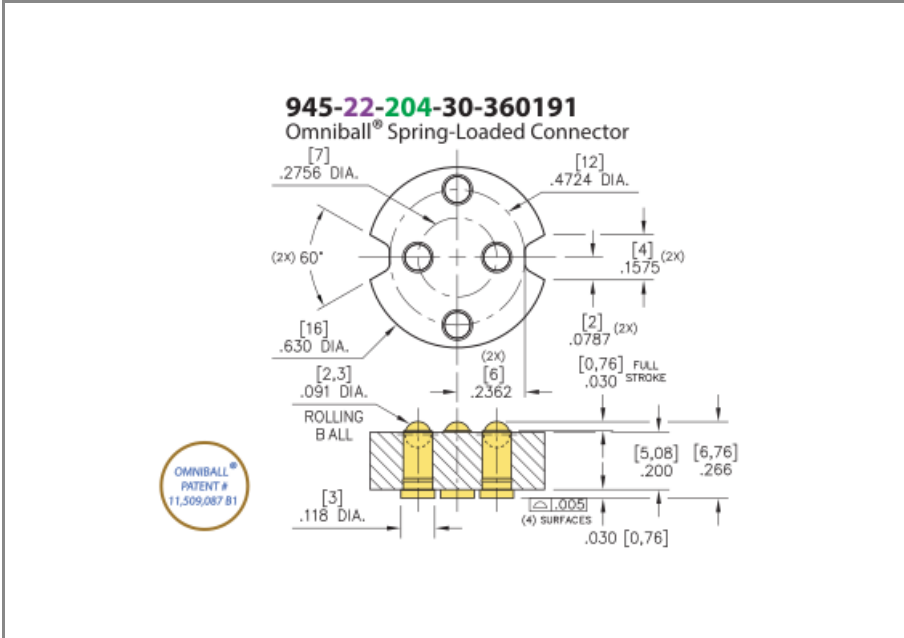




PRODUCT NUMBER: 945-22-204-30-360191

www.mill-max.com
DATA SHEET



General Information	
1 Product Lifecycle:	Active
Product Family:	Spring-Loaded Connector
Type:	Omniball® Pogo Pin Header Strip
2 Description:	PCB Mount Spring-Loaded Header
Description2:	Round, Vertical Mount SMT
Pitch:	N/A
Number of Pins:	4
Head Type:	Plunger
Tail Type:	N/A
3 Operating Temperature Range:	-55/+125° C
Country of Origin:	USA
4 ROHS:	Yes

945-22-204-30-360191 - SPECIFICATIONS

Product Attributes	
Plating Code:	22 - Body/Plunger Plating: 20μ" Gold - Spring Plating: 10μ" Gold
Insulator Material:	FR-4
Rows:	N/A
Frame Type:	N/A
5 Spring Number:	09 - Standard Force Beryllium Copper (Click For Graphs)
Plunger Type:	OmniBall®
Stroke:	.030" (0,762mm)
Mid Stroke:	0.015
Mounting Tab:	N/A

Key Dimensions	
Head Diameter:	.091" (2,311mm)
Initial Height:	.266" (6,756mm)
Insulator Height:	.200" (5,080mm)
Tail Diameter:	N/A
Tail Length:	N/A

Electrical Specifications	
Contact Resistance:	30.00mΩ Max
Insulation Resistance:	10,000 MΩ min.
Rated Voltage:	100 VRMS/150 VDC
Dielectric Withstanding Voltage:	1,000 VRMS min.

Mechanical Specifications	
Mechanical life (Durability):	100,000 to 1,000,000 Cycles @ Mid-Stroke
6 Shock:	No Elect. Discontinuity > 1μs @ 50g
7 Vibration:	No Elect. Discontinuity > 1μs @ 10-2000HZ, 15 G

Mounting Specifications	
Mounting Type:	Surface Mount
Mounting Hole:	N/A
Mounting Tab:	N/A

Environmental & Export Classifications

Cage Code:	3N087
ECCN:	Contact Factory
HTSUS:	8536.90.4040
Moisture Sensitivity Level (MSL):	1 (Unlimited)
Prop 65:	N
REACH Status:	REACH Unaffected
Special Handling Code:	UNDF
Static Sensitive:	N

Packaging Information

8 Packaging:	Tape & Reel
Tape Width:	32mm
Quantity Per Reel:	370

NOTES:

1. Part is Active and in Production, No Scheduled Obsolescence

2. **Standard Tolerances**

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

Connector Length "L"

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

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

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. Current ratings are based on the pin tested in free air; the performance may be moderated when used in a connector.

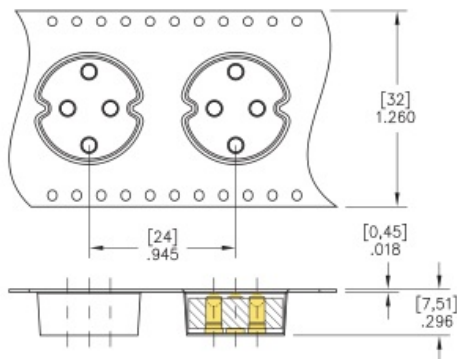
6. For discrete pin only. Per IEC 60512-6-3: Test 6c: Shock

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

8. 13" (330 mm) Reel

ADDITIONAL PARTS, PACKAGING & ASSEMBLY INFO

945-22-204-30-360191
Omniball® Spring-Loaded Connector



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

- Product Detail: [945-22-204-30-360191 - SLC Header](#)
- Engineering Notebook: [Introduction to Omniball® Spring-Loaded Contacts and Connectors](#)
- Environmental Compliance: <https://www.mill-max.com/rohs>