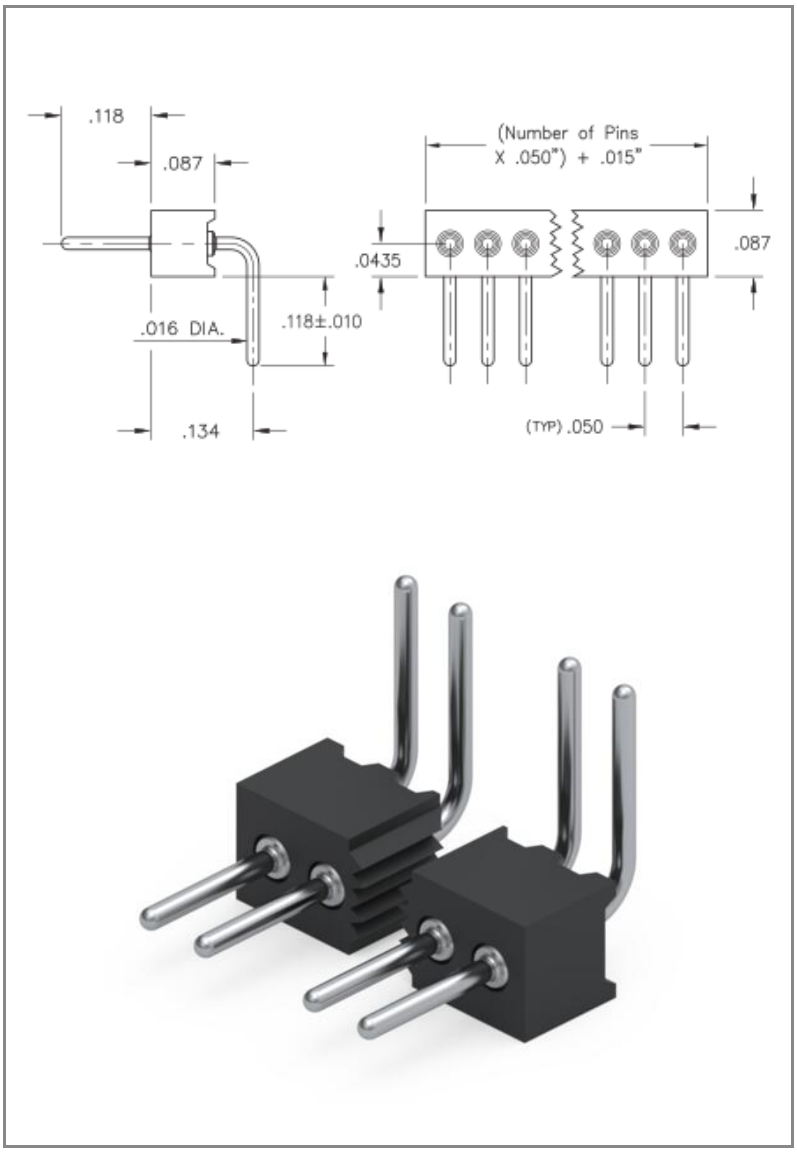
PRODUCT NUMBER: 850-90-033-20-001000

www.mill-max.com
DATA SHEET



General Info	
Description[1]:	Right Angle Pin Header .016" (0,406mm) Pin Head
Type:	Interconnect
Category:	Machined Pin Header
Mounting Style:	Through Hole Solder Mount
Tail Type:	Solder Tail
# Pins:	33
Packaging[2]:	Packaged in Box or Tube
Rows:	Single Row
Head Type:	Pin Head
ECCN:	Contact Factory
HTSUS:	8536.90.4040
Product Lifecycle:	Active
Country Of Origin:	USA

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850-90-033-20-001000- SPECIFICATIONS

Environmental Specs	
Temperature Range[3]:	-55/+125° C
Moisture Sensitivity Level (MSL):	1 (Unlimited)
REACH Status:	REACH Unaffected

Mechanical Specs	
Mounting Hole:	.020" (0,508mm)

Materials	
Loose Pin/Receptacle # (Material):	4006 (Brass Alloy)
Shell Plating:	200 µ" Tin/Lead(93/7) over 100 µ" Nickel
Inner Plating:	
Insulator Material:	Nylon 4/6

Technical Specs	
Pitch:	.050" (1,270mm)

Electrical Specs	
Current Rating[4]:	Application Specific
Rated Voltage:	100 VRMS/150 VDC
Insulation Resistance:	10,000 MΩ min.
Dielectric Withstanding Voltage:	1,000 VRMS min.

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NOTES:

1. **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: +/-.005 (.13mm)
   Pin Diameter: +/-.002 (.051mm)
   Pin Angle: +/-2°
2. Not all part numbers in the series may be packaged in tubes. Some specific part numbers may be packaged in a box.
3. Per IEC 60512-11-(4,-9,-10,-12)
4. Current rating is typically a measured function of the female socket/connector. The amount of current a solid, male, brass pin can tolerate is a direct relation of the heat displaced based on current and the ability of neighboring components to handle displaced heat.

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: **Introduction to Machined Pin PCB Connectors & Interconnects**
- Environmental Compliance: https://www.mill-max.com/rohs

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