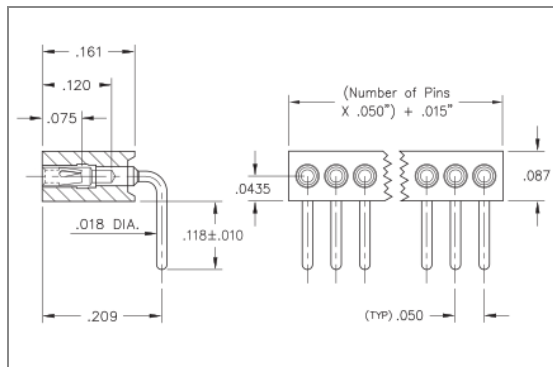




PRODUCT NUMBER: 851-93-008-20-001000

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DATA SHEET



851-93-008-20-001000- SPECIFICATIONS

General Info	
Description¹:	Right Angle Socket Accepts .015"-.020" (0,381-0,508mm) dia leads
Type:	Interconnect
Category:	Machined Pin Socket
Mounting Style:	Through Hole Solder Mount
# Pins:	8
Pitch:	.050" (1,270mm)
Rows:	Single Row
Product Lifecycle:	Active

Environmental Specs	
Temperature Range²:	-55/+125° C

Mechanical Specs	
Mounting Hole:	.022" (0,559mm)

Materials	
Loose Pin/Receptacle # (Material):	4890 (Brass Alloy)
Shell Plating:	200 μ" Tin/Lead(93/7) over 100 μ" Nickel
Inner Contact #:	11
# Contact Fingers:	3
Inner Contact Material:	Beryllium Copper
Inner Contact Plating:	30 μ" Gold over 50 μ" Nickel
Insulator Material:	Nylon 4/6

Electrical Specs	
Current Rating³:	3 Amps
Contact Resistance:	10 mΩ max.
Rated Voltage:	100 VRMS/150 VDC
Insulation Resistance⁴:	10,000 MΩ min.
Dielectric Strength:	1,000 VRMS min.

NOTES:

1. Standard Tolerances

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

Connector Length "L"

Connector Length "L"	Tolerance
$L \leq 2"$ ($L \leq 50.8$ mm)	$\pm .005"$ ($\pm .127$ 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: $\pm .005$ (.13mm)

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

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

Pin Angle: $\pm 2^\circ$

2. Per IEC 60512-11-(4,-9,-10,-12)
3. Per IEC 60512-5-1, Current Carrying Capacity (evaluated at 10° C Temp. Rise)
4. For discrete pin only. Per EIA-364-23C, Low Level Contact Resistance

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/machined-pin-pcb-connectors-interconnects>)

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