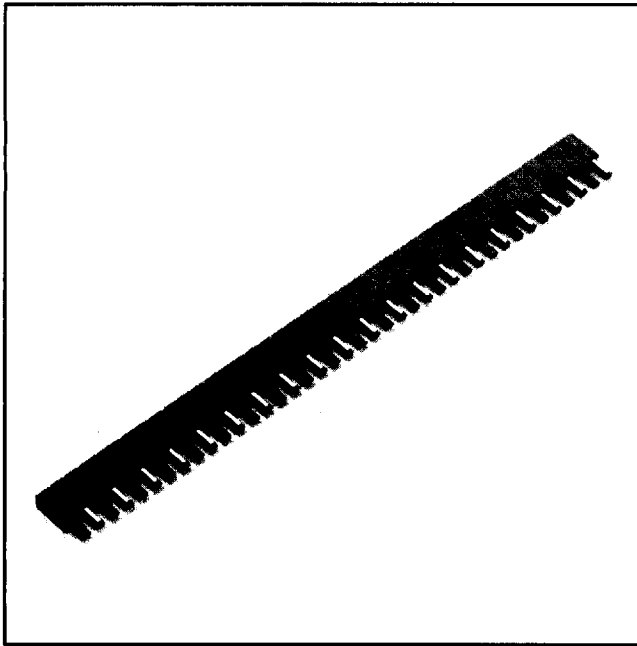


# .100" and .100" × .100" Thru Board Socket

Straight, Solder Tails

929 Series



- 3–40 contacts on one row, 4–80 on two row
- Single hole board preparation simplifies board layout
- No solder mask preparation speeds manufacturing assembly
- Top mounting allows single pass for wave soldering

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## Physical

### Insulation

Material: Glass Filled Polyester (PET)

Flammability: UL 94V-0

Color: Gray

### Contact

Material: Copper Alloy

Plating

Underplating & U-Slot: 100  $\mu$ " [ 2.54  $\mu$ m ] Nickel — QQ-N-290, Class 2

Wiping Area Options: See Ordering Information

Solder Tails: 100  $\mu$ " [ 2.54  $\mu$ m ] Tin Lead — MIL-P-81728

## Electrical

Current Rating: 2 A

Insulation Resistance:  $> 1 \times 10^9 \Omega$  500 Vdc

Withstanding Voltage: 1000 Vrms at Sea Level

## Environmental

Temperature Rating:  $-55^\circ\text{C}$  to  $105^\circ\text{C}$

UL File No.: E68080

3M Electronic Products Division 19F 9035312 0004250 T04

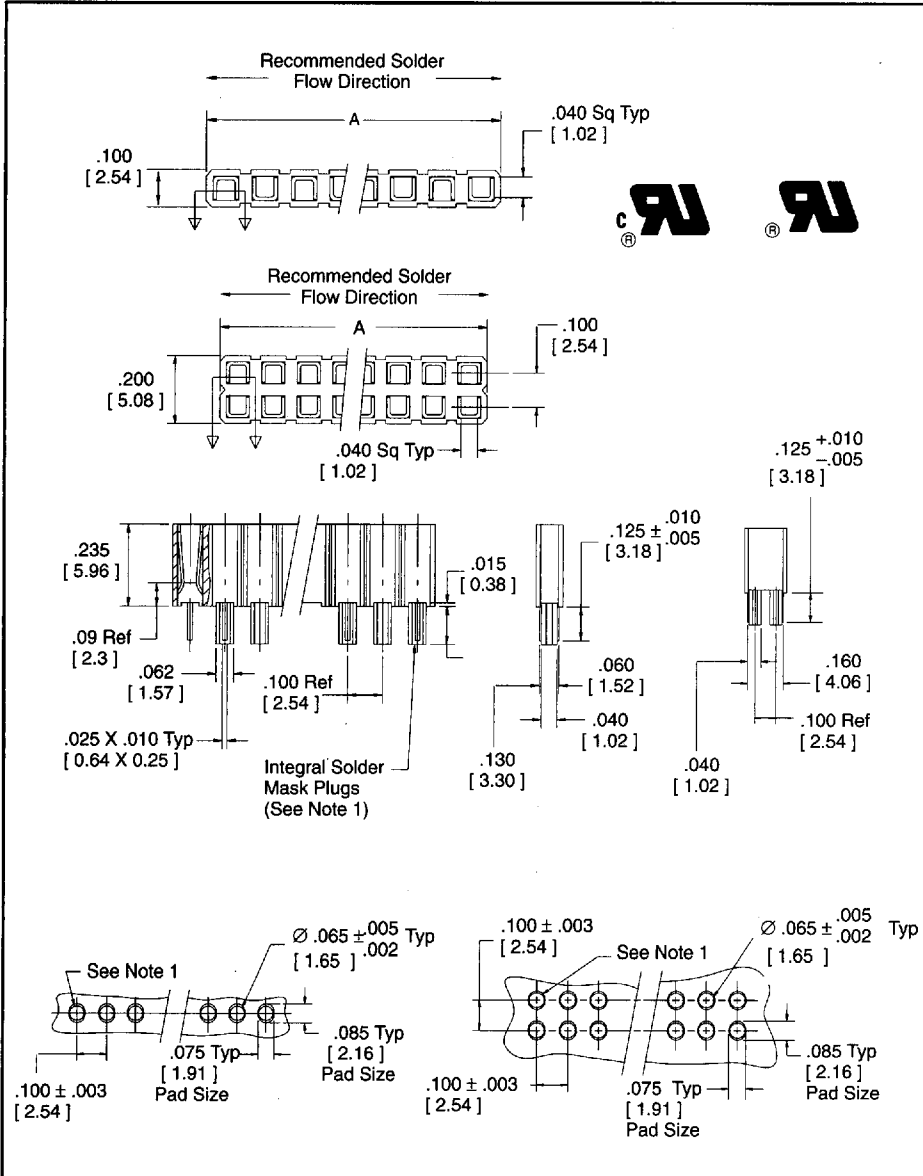
<http://www.3M.com/interconnects/>

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For technical, sales or ordering information call  
800-225-5373

# .100" and .100" x .100" Thru Board Socket Straight, Solder Tails

929 Series



Contact Quantity		Dimension A +0.00 [ +0.00 ] -0.025 [ -.64 ]
One Row	Two Row	
	04	0.20 [ 5.08 ]
	06	0.30 [ 7.62 ]
	08	0.40 [ 10.16 ]
	10	0.50 [ 12.70 ]
	12	0.60 [ 15.24 ]
	14	0.70 [ 17.78 ]
	16	0.80 [ 20.32 ]
	18	0.90 [ 22.86 ]
	20	1.00 [ 25.40 ]
	22	1.10 [ 27.94 ]
	24	1.20 [ 30.48 ]
	26	1.30 [ 33.02 ]
	28	1.40 [ 35.56 ]
	30	1.50 [ 38.10 ]
	32	1.60 [ 40.64 ]
	34	1.70 [ 43.18 ]
	36	1.80 [ 45.72 ]
	38	1.90 [ 48.26 ]
	40	2.00 [ 50.80 ]
	42	2.10 [ 53.34 ]
	44	2.20 [ 55.88 ]
	46	2.30 [ 58.42 ]
	48	2.40 [ 60.96 ]
	50	2.50 [ 63.50 ]
	52	2.60 [ 66.04 ]
	54	2.70 [ 68.58 ]
	56	2.80 [ 71.12 ]
	58	2.90 [ 73.66 ]
	60	3.00 [ 76.20 ]
	62	3.10 [ 78.74 ]
	64	3.20 [ 81.28 ]
	66	3.30 [ 83.82 ]
	68	3.40 [ 86.36 ]
	70	3.50 [ 88.90 ]
	72	3.60 [ 91.44 ]
	74	3.70 [ 93.98 ]
	76	3.80 [ 96.52 ]
	78	3.90 [ 99.06 ]
	80	4.0 [ 101.60 ]

### Recommended Mounting Hole Pattern

**Notes:**

1. It is recommended that the plated thru-hole on the ends be .062" to .063". this will prevent the connector from floating during the wave soldering process.
2. Integral solder mask plugs are removed after soldering by using the 3M Hand Tool 929013 with the 3M Molded Head 929025-0X-XX or 3M Hand Tool 929012 with the 3M Press 929050.
3. Do not hand solder this connector because the solder heat and volume of solder cannot be adequately controlled. This would make the integral plugs difficult or impossible to remove.
4. The connector should be flow soldered such that it enters the solder wave, end first (width).
5. Request tech brief for proper application usage.

**Inch**  
[mm]

Tolerance Unless Noted			
	.0	.00	.000
Inch	± .1	± .01	± .005

[ ] Dimensions for Reference only

### Ordering Information

**929XXX-01-XX-XX**

**Plating Options:**

- |                                      |                                      |
|--------------------------------------|--------------------------------------|
| 1 Row                                | 2 Row                                |
| 841 = Gold                           | 842 = Gold                           |
| 971 = 100 μ" [ 2.54 μm ]<br>Tin Lead | 972 = 100 μ" [ 2.54 μm ]<br>Tin Lead |

**Gold Plating Thickness:**

- 10 = Wiping Area 10 μ" [ 0.25 μm ] Gold
- 30 = Wiping Area 30 μ" [ 0.76 μm ] Gold

**Contact Quantity:**  
(per row)  
See Table

(No entry required for Tin Lead plating)

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