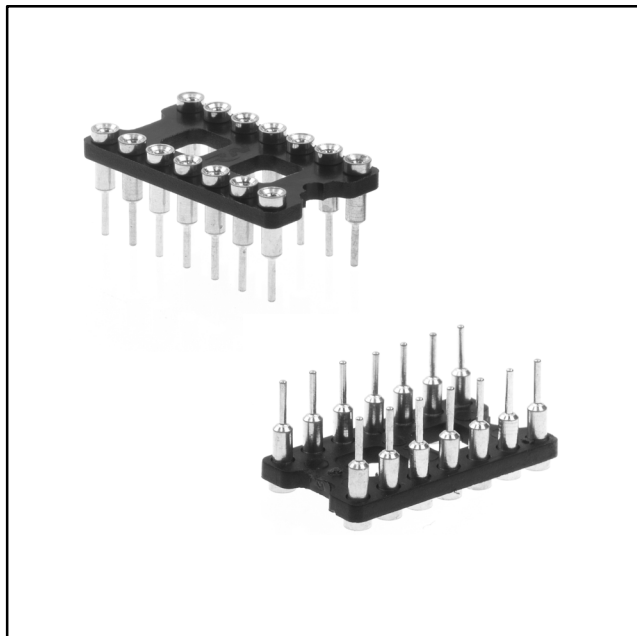


3M™ DIP Socket

Screw Machine, Open Body, Low Profile

ICT Series



- High retention pin sockets prevent "IC walk-out" during heavy vibration
- Pin socket design prevents solder wicking and flux entrapment
- Four-finger beryllium copper contacts provide low, stable contact resistance and accept short IC leads
- Side and end stackable
- Low profile 0.050" maximum height

Date Modified: July 21, 2006

TS1085904
Sheet 1 of 3

Physical

Insulation

Material: Black Polyester Glass Fiber
Flammability: UL 94V-0
Color: Black

Contact

Shell Material: Half Hard Brass
Clip Material: Beryllium Copper

Plating

Underplate: 50 μ " [1.27 μ m] min. Nickel
Wiping Area: See Ordering Information
Terminal Area: 200 μ " [5.08 μ m] min. Tin/Lead

Insertion / Removal Forces:

Insertion Force: SP95 = 16 ounces max per contact using .017" [0.43 mm] dia. pin
SP95 = 12 ounces max per contact using .017" [0.43 mm] dia. pin
SP95N = 5 ounces max per contact using .017" [0.43 mm] dia. pin
Withdrawal Force: SP95, S = 1.5 ounces min. per contact using .017" [0.43 mm] dia. pin
SP95N = 1.75 ounces max per contact using .017" [0.43 mm] dia. pin
(After 12 cycles)

Electrical

Current Rating: 1.0 A

Contact Resistance: 20 m Ω max.

Dielectric Withstanding Voltage: 500V AC for 1 minute

Insulation Resistance: 5,000 M Ω min. at 500V DC

Withstanding Voltage: 650V AC for 1 minute

Capacitance: 1 pF max.

Environmental

Temperature Rating: -65°C to +125°C

UL File No.: E68080

3M

Interconnect Solutions

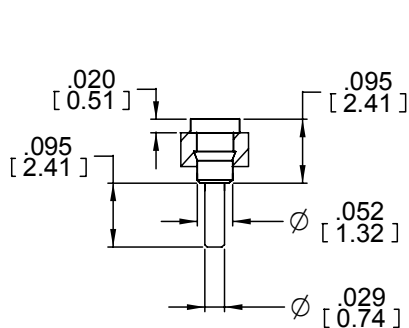
<http://www.3M.com/interconnects/>

3M is a trademark of 3M Company.

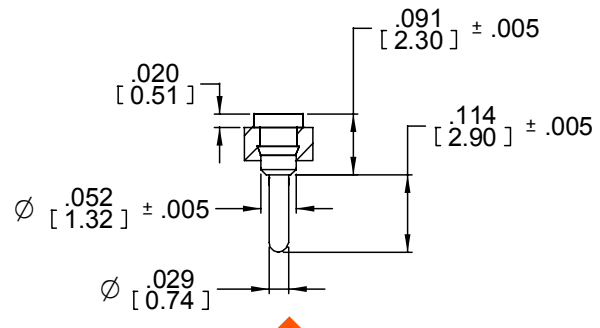
For technical, sales or ordering information call

800-225-5373

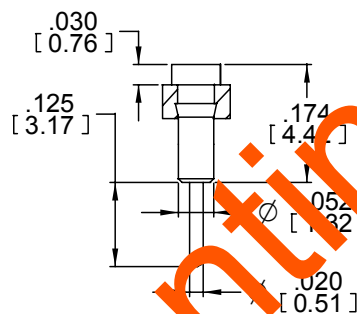
Pin Socket Styles



Pin Socket "SP95"



Pin Socket "SP95N"



Pin Socket "S"



Pin socket Style	Plating Available
S	TG
S	TG30
S	TT
SP95	TG
SP95	TG30
SP95	TT
SP95N	TG30
SP95N	TT

Inch
[mm]

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

[] Dimensions for Reference only

Acceptable Pin Sizes

Diameter: .016" - .021" [0.41 mm - 0.53 mm]

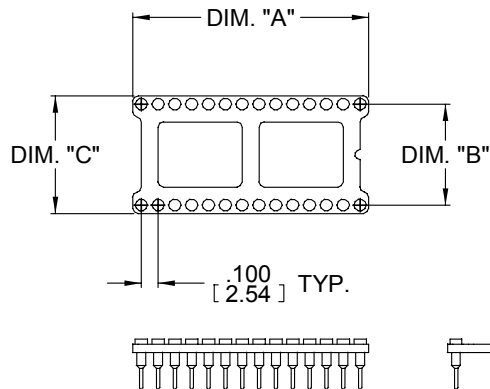
Length: S, SP95N = .110" - .150" [2.79 mm - 3.81 mm]

SP95 = .080" - .155" [2.03 mm - 3.93 mm]

Mounting Information

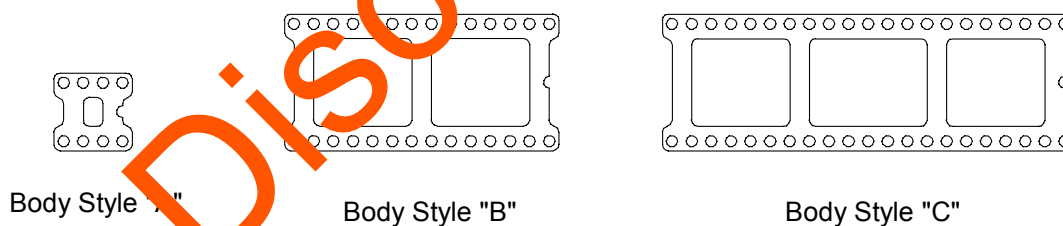
.020" [0.51 mm] Dia. Pin: .030" ± .002" [0.76 mm ± 0.05 mm] dia. PCB hole

Contact Quantity	Description	Dimension A	Dimension B	Dimension C	Body Style
6	ICT-063-XXXX-XXXX	0.295 [7.49]	.300 [7.62]	.395 [10.03]	A
8	ICT-083-XXXX-XXXX	.395 [10.03]	.300 [7.62]	.395 [10.03]	A
14	ICT-143-XXXX-XXXX	.695 [17.65]	.300 [7.62]	.395 [10.03]	B
16	ICT-163-XXXX-XXXX	.795 [20.19]	.300 [7.62]	.395 [10.03]	B
18	ICT-183-XXXX-XXXX	.895 [22.73]	.300 [7.62]	.395 [10.03]	B
20	ICT-203-XXXX-XXXX	.995 [25.27]	.300 [7.62]	.395 [10.03]	B
22	ICT-224-XXXX-XXXX	1.095 [27.81]	.400 [10.16]	.495 [12.57]	B
24	ICT-243-XXXX-XXXX	1.195 [30.35]	.300 [7.62]	.395 [10.03]	B
24	ICT-246-XXXX-XXXX	1.195 [30.35]	.600 [15.24]	.695 [17.65]	B
28	ICT-286-XXXX-XXXX	1.395 [35.43]	.600 [15.24]	.695 [17.65]	B
32	ICT-326-XXXX-XXXX	1.595 [40.51]	.600 [15.24]	.695 [17.65]	C
40	ICT-426-XXXX-XXXX	1.995 [50.67]	.600 [15.24]	.695 [17.65]	C



Tolerance Unless Noted			
	Inch	mm	
	± .1	± .01	± .005

[] Dimensions for Reference only



Ordering Information

ICT - XX X - XXXX - XXXX

Contact Quantity
(See Table)

Row Spacing:
3 = .300 [7.62]
4 = .400 [10.16]
6 = .600 [15.24]
(See Table)

Lead Style:
S
SP95
SP95N

Plating Options:
TG = 10 μ" [0.25 μm] min. Gold
TG30 = 30 μ" [0.76 μm] min. Gold
TT = 150 μ" [3.81 μm] min. Tin/Lead
See chart for pin socket plating offerings

TS-1085-04
Sheet 3 of 3

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.



3M Electronics

6801 River Place Blvd.
Austin, TX 78726-9000
800/225-5373
www.3M.com/electronics

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**



Minimum 10%
Post-Consumer Fiber

Printed in USA.

© 3M 2006