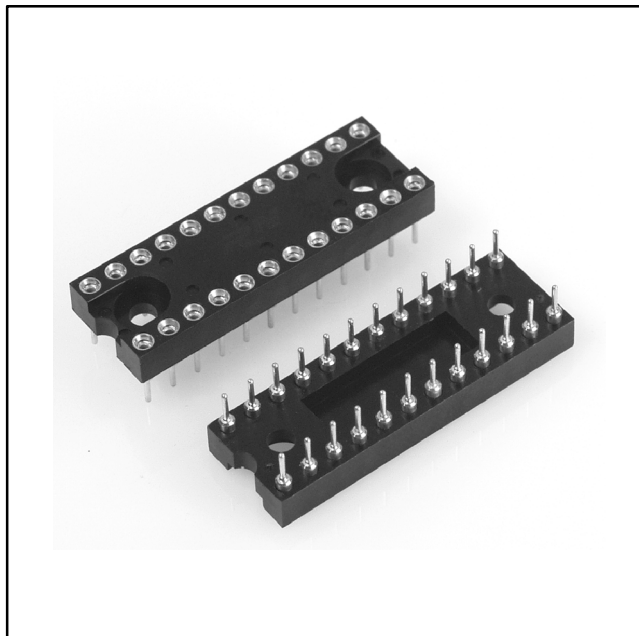


3M™ DIP Socket

Screw Machine, Closed Body

ICA 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

Date Modified: July 21, 200

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Sheet 1 of 4

Physical

Insulation

Material: Black Polyester Glass Filled

Flammability: UL 94V-0

Color: Black

Contact

Shell Material: Half Hard Brass

Clip Material: Beryllium Copper

Plating

Underplating: 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: 12 ounces max per contact*

Withdrawal Force: 1.5 [ounces] min. per contact using .017" [0.43 mm] dia. pin
(Average of 2nd 3rd and 4th Cycle)

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

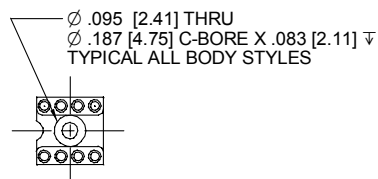
Interconnect Solutions

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

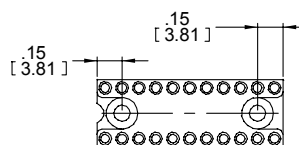
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For technical, sales or ordering information call

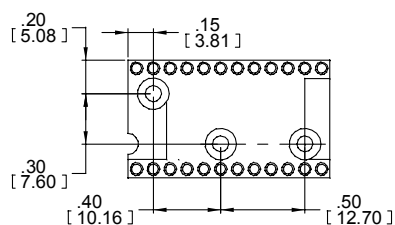
800-225-5373



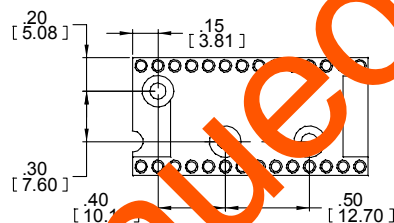
Body Style "A"



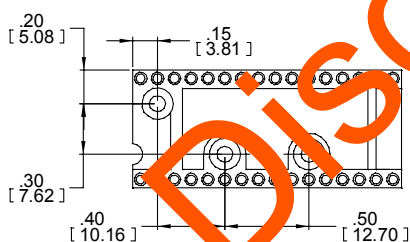
Body Style "B"



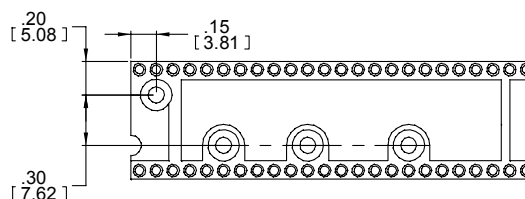
Body Style "C"



Body Style "D"



Body Style "E"



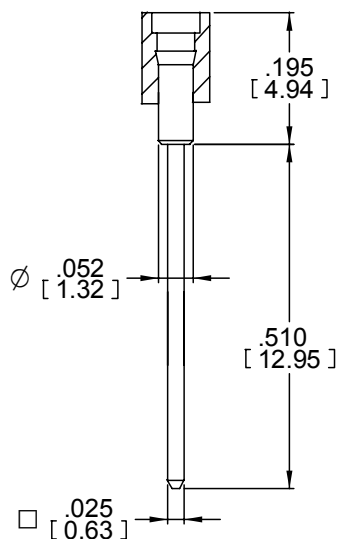
Body Style "F"

Inch
[mm]

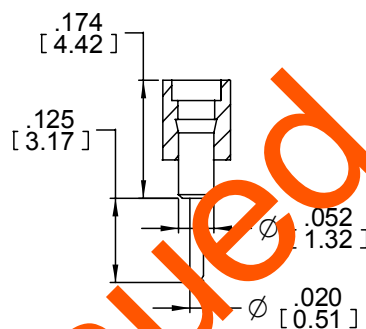
Tolerance Unless Noted			
	.0	.00	.000
Inch	± .1	± .01	± .005

[] Dimensions for
Reference only

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Sheet 2 of 4



Pin Socket "WB"



Pin Socket "S"



Pin socket Style	Plating option Available
S	TG
S	TG30
S	TT
WB	TG30

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: .110" - .150" [2.79 mm - 3.81 mm]

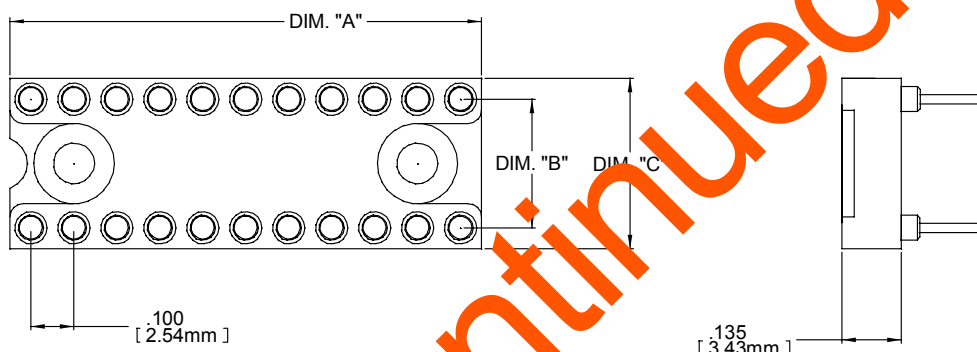
Mounting Information

.025"[0.635mm] Square Pin .040" ± .002" [1.1 mm ± 0.05 mm] dia. PCB hole

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

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Sheet 3 of 4

Contact Quantity	Description	Dimension A	Dimension B	Dimension C	Body Style
6	ICA-063-XXX-XXXX	0.295 [7.49]	.300 [7.62]	.395 [10.03]	A
8	ICA-083-XXX-XXXX	.395 [10.03]	.300 [7.62]	.395 [10.03]	A
14	ICA-143-XXX-XXXX	.695 [17.65]	.300 [7.62]	.395 [10.03]	B
16	ICA-163-XXX-XXXX	.795 [20.19]	.300 [7.62]	.395 [10.03]	B
18	ICA-183-XXX-XXXX	.895 [22.73]	.300 [7.62]	.395 [10.03]	B
20	ICA-203-XXX-XXXX	.995 [25.27]	.300 [7.62]	.395 [10.03]	B
24	ICA-243-XXX-XXXX	1.195 [30.35]	.300 [7.62]	.395 [10.03]	B
24	ICA-246-XXX-XXXX	1.195 [30.35]	.600 [15.24]	.695 [17.65]	C
28	ICA-286-XXX-XXXX	1.395 [35.43]	.600 [15.24]	.695 [17.65]	D
32	ICA-326-XXX-XXXX	1.595 [40.51]	.600 [15.24]	.695 [17.65]	E
40	ICA-406-XXX-XXXX	1.995 [50.67]	.600 [15.24]	.695 [17.65]	F



Inch
[mm]

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

[] Dimensions for
Reference only

Ordering Information

ICA - XX X - XXXX - X

Contact Quantity
(See Table)

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

Lead Style:
S
WB

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

TS110003
Sheet 4 of 4

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[TG30](#)