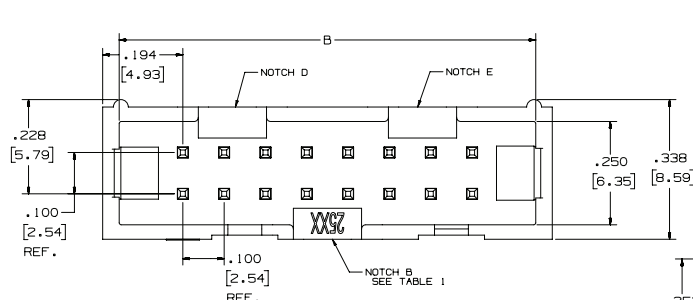


3M™ Four-Wall Header

.100" x .100" Low Profile, Straight Through-Hole

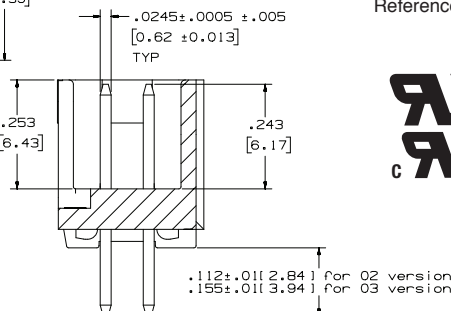
2500 Series



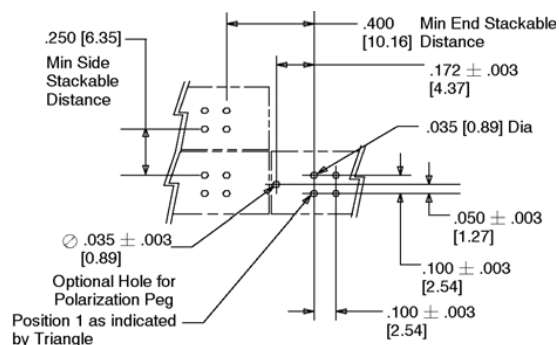
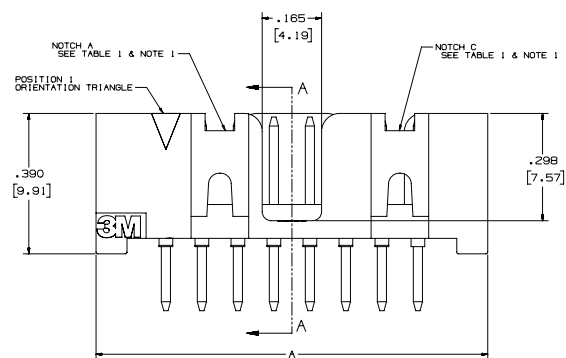
Inch (mm)

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

[] Dimensions for Reference only



SECTION A - A



Recommended P.C. Board Hole Pattern
(Shown for mounting side of board.)

Notes:

- Notches A & C will accommodate 3M Polarizing Keys (3M Part #3518 or N3518).
- Contact tails .0245 [0.622] wire with .0075 [0.191] corner radii & .028 [0.72] diagonal.
- Solder stand offs facilitate .01 clearance above board for reflow soldering.

Table 1				
Pin Qty	Dimensions		Polarizing Notches	
	A	B		
6	0.588 (14.94)	0.508 (12.90)	B	
8	0.688 (17.48)	0.608 (15.44)	B	
10	0.788 (20.02)	0.708 (17.98)	BC	
14	0.988 (25.10)	0.908 (23.06)	BCDE	
16	1.088 (27.64)	1.008 (25.60)	ABCDE	
20	1.288 (32.72)	1.208 (30.68)	ABCDE	
24	1.488 (37.80)	1.408 (35.76)	ABCDE	
26	1.588 (40.34)	1.508 (38.30)	ABCDE	
30	1.788 (45.42)	1.708 (43.38)	ABCDE	
34	1.988 (50.50)	1.908 (48.46)	ABCDE	
36	2.088 (53.04)	2.008 (51.00)	ABCDE	
40	2.288 (58.12)	2.208 (56.08)	ABCDE	
50	2.788 (70.82)	2.708 (68.78)	ABCDE	
60	3.288 (83.52)	3.208 (81.48)	ABCDE	
64	3.488 (88.60)	3.408 (86.56)	ABCDE	

Ordering Information

Prefix:

N = High Temp. Black (PCT)
(RB, UB, or UG Pltg. Req'd)

Blank = Std. Temp. Gray (PBT)
(UB or UG Pltg. Req'd)

X25XX - 60XX - XX

Pin Quantity:
(See Table 1)

Solder Tail

02 = for .062 [1.57] thick board (Standard)
03 = for .094 to .125 [2.39 to 3.18] thick board

Plating:

RB = 30μ" [0.76μm] Gold with 200μ" [5.08 μm]

Matte Tin Solder Tails (RIA E1 & C1 apply)

UG = 15μ" [0.38μm] Gold with 200μ" [5.08μm] 60:40
Tin-Lead Solder Tails (RIA E3 & C2 apply)

UB = 30μ" [0.76μm] Gold with 200μ" [5.05μm] 60:40
Tin-Lead Solder Tails (RIA E3 & C2 apply)

TS-0770-L
Sheet 2 of 5

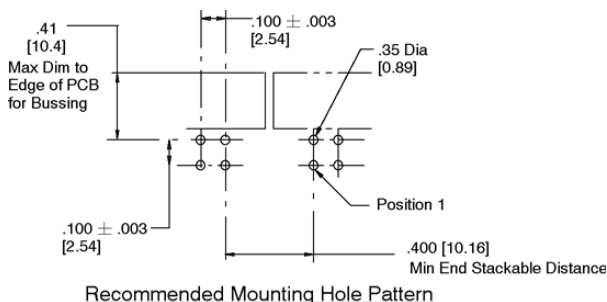
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Technical drawing of a mechanical part, SECTION B-B, showing dimensions in inches and millimeters. The drawing includes a cross-section of a cylindrical component with various features and dimensions. Dimensions are given in inches and millimeters, with millimeter values in brackets. A table of tolerances is provided, and a note indicates that dimensions in brackets are for reference only.

Dimensions (Inch/mm):

- Top horizontal dimension: $.0245 \pm .0005$ [0.62 $\pm$ 0.013]
- Left vertical dimension: $.253$ [6.43]
- Right vertical dimension: $.243$ [6.17]
- Bottom left vertical dimension: $.390$ [9.91]
- Bottom right vertical dimension: $.100$ [2.54]
- Bottom horizontal dimension (for 02 version): $.112 \pm .011$ [2.84]
- Bottom horizontal dimension (for 03 versions): $.155 \pm .011$ [3.94]

Tolerance Unless Noted

	.0	.00	.000
Inch	$\pm .1$	$\pm .01$	$\pm .005$

[] Dimensions for Reference only

SECTION B-B

1. Notches A & C will accommodate 3M Polarizing Keys (3M Part #3518 or N3518).
2. Contacts tails .0245 [0.622] wire with .0075 [0.191] corner radii & .028 [.071] diagonal.



Plating:
RB = 30μ" [0.76μm] Gold with 200μ" [5.08μm]
Matte Tin Solder Tails (RIA E1 & C1 apply)
 UG = 15μ" [0.38μm] Gold with 200μ" [5.08μm] 60:40
 Tin-Lead Solder Tails (RIA E3 & C2 apply)
 UB = 30μ" [0.76μm] Gold with 200μ" [5.05μm] 60:40
 Tin-Lead Solder Tails (RIA E3 & C2 apply)

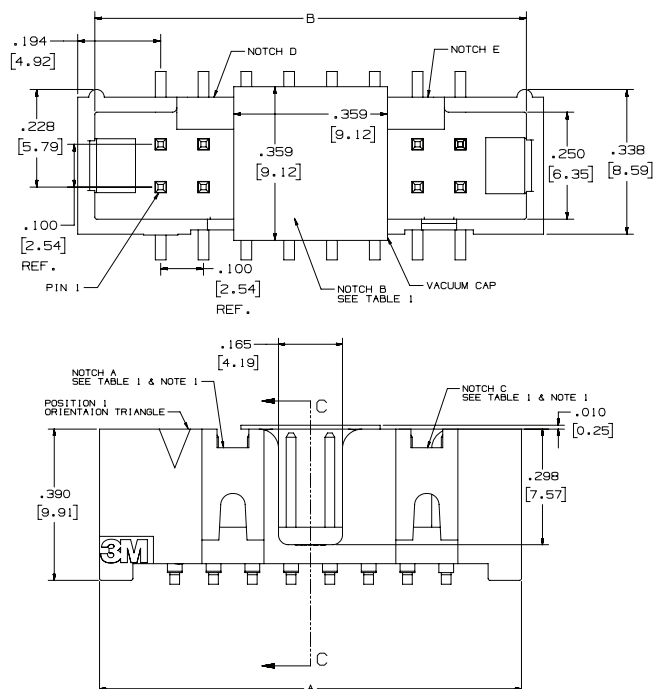
TS-0770-L
Sheet 3 of 5

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3M™ Four-Wall Header

.100" x .100" Low Profile, Surface Mount Straight

2500 Series



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

[] Dimensions for Reference only

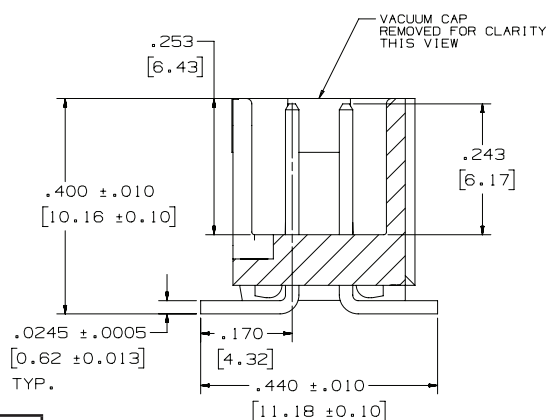
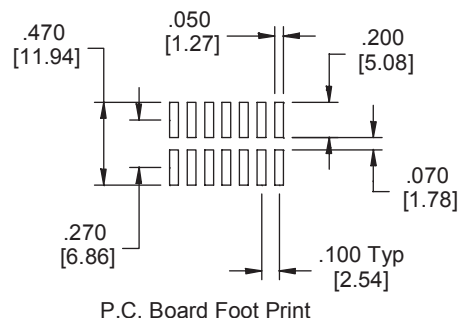


Table 1					
Pin Qty	Dimensions		Polarizing Notches	Tape and Reel	PKG Code
	A	B			
6	0.588 (14.94)	0.508 (12.90)	B	WD (44 mm)	
8	0.688 (17.48)	0.608 (15.44)	B	WD (44 mm)	
10	0.788 (20.02)	0.708 (17.98)	BC	WD (44 mm)	
14	0.988 (25.10)	0.908 (23.06)	BCDE	WD (44 mm)	
16	1.088 (27.64)	1.008 (25.60)	ABCDE	WD (44 mm)	
20	1.288 (32.72)	1.208 (30.68)	ABCDE	WE (56 mm)	
24	1.488 (37.80)	1.408 (35.76)	ABCDE	WE (56 mm)	
26	1.588 (40.34)	1.508 (38.30)	ABCDE	WE (56 mm)	
30	1.788 (45.42)	1.708 (43.38)	ABCDE	WF (72 mm)	
34	1.988 (50.50)	1.908 (48.46)	ABCDE	WF (72 mm)	
36	2.088 (53.04)	2.008 (51.00)	ABCDE	WG (88 mm)	
40	2.288 (58.12)	2.208 (56.08)	ABCDE	WG (88 mm)	
50	2.788 (70.82)	2.708 (68.78)	ABCDE	WG (88 mm)	
60	3.288 (83.52)	3.208 (81.48)	ABCDE	WH (120 mm)	
64	3.488 (88.60)	3.408 (86.56)	ABCDE	WH (120 mm)	

Notes:

- Notches A & C will accommodate 3M Polarizing Key N3518.
- Vacuum cap will be centered on connectors.
- Coplanarity .004 for less than 30 position, .006 for 30 and above.



Ordering Information

N25XX - 6V0C - XX-XX

Prefix: _____
N = High Temp Black (PCT) (RB Plating Req'd)

Pin Quantity: _____
(See Table)

Packaging Options: _____
WX = tape & reel packaging (see table 1)

Plating: _____
RB = 30 μ" [0.76 μm] Gold with 200 μ" [5.08 μm] Matte
Tin Solder Tails (RIA E1 & C1 apply)

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Sheet 4 of 5



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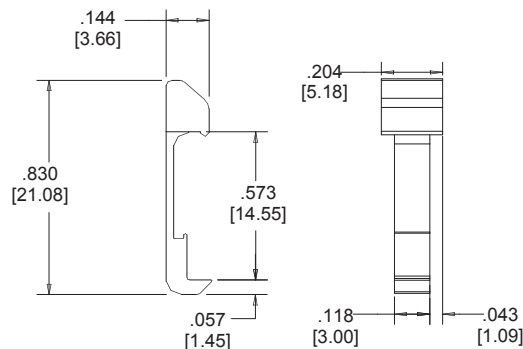
3M™ Four-Wall Header

.100" x .100" Low Profile, Accessories

2500 Series

Connector Pin Qty	Dimension A
6	N/A
8	N/A
10	.81 (20.6)
14	1.02 (25.9)
16	1.12 (28.4)
20	1.32 (33.5)
24	1.52 (38.7)
26	1.63 (41.4)
30	1.83 (46.4)
34	2.03 (51.6)
36	N/A
40	2.33 (59.2)
50	2.83 (71.9)
60	3.33 (84.6)
64	3.53 (89.7)

Part Number	Material	Color
3505-33B	Nylon	Black
3505-33	Nylon	Gray

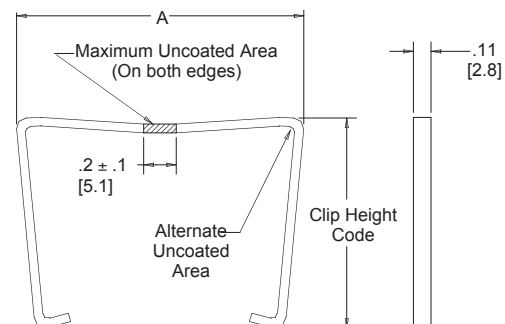


Note: Latches not compatible with reflow soldering. For reflow soldering, attach latches after soldering.

3505-8XXX

Clip Height Code
 0 = .31 [7.9] for Sockets W/O Strain Relief
 1 = .53 [13.5] for Sockets with Strain Relief

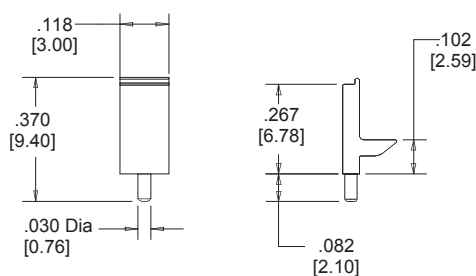
Connector Pin Count:
 (See Table)



Short/Long Socket Retainer Clip

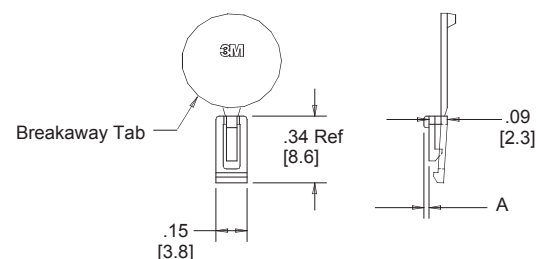
Note: Stainless steel with gray polyurethane coating.

Part Number	Material	Color
3201-3	PCT	Black
3201-1	PBT	Gray



Polarizing Post

Part Number	Material	Color	Dim. A
N3518	LCP	Black	0.02
3518	PBT	Gray	0.02



Polarizing Keys

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 Sheet 5 of 5



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