3M[™] Three-Wall Condo Header

 $.100 \times .100$ Right Angle





- Stacked pins conserve space on the circuit board allowing higher density packaging
- Pin quantity to 128 gives design flexibility with latching
- "HDI" alternative
- Three-wall fits in VME board stacking criteria
- · Accepts standard IDC sockets
- Mates with standard flat cable harnesses
- Optional high temperature insulator suitable for "no lead" soldering operations
- High temperature option suitable for reflow soldering using "paste in hole" techniques
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: April 3, 2013

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Physical

Insulation:

Material: Glass Filled Polyester (PBT), Glass Filled Polyester (PCT) - High Temp Option

Flammability: UL 94V-0

Color: Gray (PBT), Black (PCT)

Contact:

Material: Copper Alloy

Plating:

Underplating: 100 µ" [2.54 µm] Nickel - Overall

Wiping Area: 30μ " [0.76μ m] Gold

Solder Tails: 200 μ" [5.08 μm] Tin Lead or Matte Tin (See Ordering Information)

Marking: 3M Logo, Part Identification Number and Orientation Triangle

Electrical

Current Rating: 2 A (EIA 364-70)Insulation Resistance: $>1 \times 10^9 \Omega$ at 500 V_{DC} Withstanding Voltage: $1,000 \text{ V}_{RMS}$ at Sea Level

Environmental

Temperature Rating: -55°C to +105°C

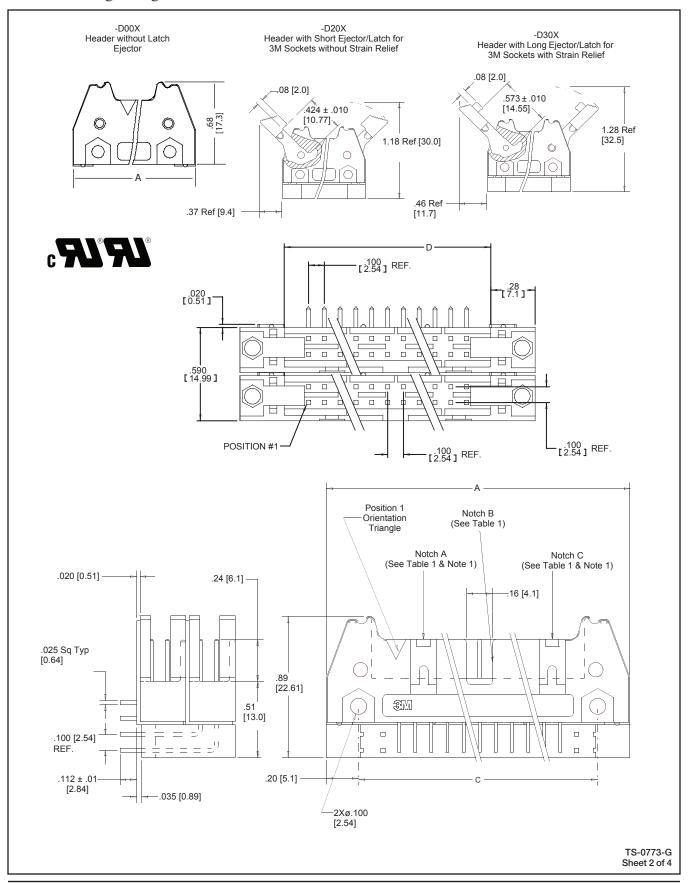
Process Rating: 260°C (High Temp. PCT insulator) single pass (per J-STD-020C)

PBT gray insulator, maximum insulator temperature 191°C (solder

wave process only)

Moisture Sensitivity Level: 1 (per J-STD-020C) High Temp. (PCT) versions only

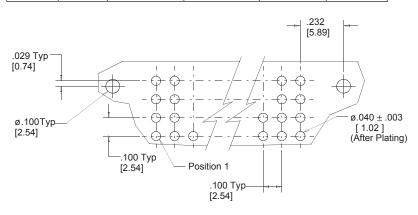
UL File No.: E68080



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3000 Series

Table 1					
Pin Quantity	3M Part Number	Dimensions			Polarizing
		Α	С	D	Notches
20	3793	1.26 (32.1)	0.865 (21.97)	0.71 (18.0)	ВС
28	3314	1.46 (37.2)	1.065 (27.05)	0.91 (23.1)	ВС
32	3408	1.56 (39.7)	1.165 (29.59)	1.01 (25.6)	ABC
40	3428	1.76 (44.8)	1.365 (34.67)	1.21 (30.7)	ABC
48	3627	1.96 (49.8)	1.565 (39.75)	1.41 (35.8)	ABC
52	3429	2.06 (52.4)	1.665 (42.29)	1.51 (38.3)	ABC
60	3440	2.26 (57.4)	1.865 (47.37)	1.71 (43.4)	ABC
68	3431	2.46 (62.6)	2.065 (52.45)	1.91 (48.5)	ABC
80	3432	2.76 (70.2)	2.365 (60.07)	2.21 (56.1)	ABC
100	3433	3.26 (82.9)	2.865 (72.77)	2.71 (68.8)	ABC
120	3372	3.76 (95.6)	3.365 (85.47)	3.21 (81.5)	ABC
128	3764	3.96 (100.7)	3.565 (90.55)	3.41 (86.6)	ABC



Recommended Hole Pattern

- 1. Notches A & C will accomodate 3M Polarizing Key (3M Part Number 3518 or N3518).
- 2. 112 [2.84] tail length suitable for .062 [1.57] thick pc board.
- Contact your 3M sales representative for custom requirements.
- Use of snap-in style latch/ejectors in either short (X3XXX-D502XX) or X3XXX-D602XX) styles, installed or shipped
- separately (-5 & -6 snap-in latches are dimensionally and functionally equivalent to -2 & -3 roll pin latches)

 5. Mounting hardware: From solder side of pc board use #4-*24 thread cutting screw (3M Part 3341-5) and .116 dia. mounting hole. See Illustrations on

If ordering Snap-In style latches separately, please use the below chart

	Short Latch	Long Latch	Color
High Temp (PBT)	3505-30	3505-31	Gray
High Temp (PPA)	N3505-30B	N3505-31B	Black

Inch (mm)

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

[] Dimensions for Reference only

Ordering Information

X3XXX - DX02XX

N = High Temp Black (PCT) (RB Plating Req'd) Blank = Std. Temp Gray (PBT) (Blank or UB Pltg. Req'd.)

RB = 30µ" [0.76µm] Gold with Matte Tin Tails (App. E1 & C1 Apply) Blank or UB = 30µ" [0.76µm] Gold with Tin Lead Tails (App. E3 & C2 Apply)

Latch/Ejector System

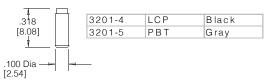
0 = No Latch/Ejector Installed

2 = Short, Roll Pin Latch/Ejectors

3M Part Number 3 = Long, Roll Pin Latch/Ejectors

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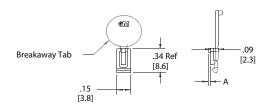
Polarizing Post



Note: Insert Post into one mounting hardware hole on bottom of header. Set post to protrude .115" [2.92]

Polarizing Keys

			Dim A
N3518	LCP	Black	.02
3518	PBT	Gray	.02



Note: $\#2216\ B/A\ Scotchweld\ can\ be\ used\ to\ adhere\ keys.$

Mounting Hardware

3341-5 & 6 Material - Stainless Steel

3341-5 (Installed from bottom of board)

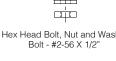
31 [7.9]

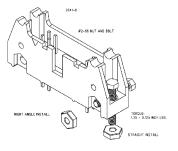
'anhead Thread Cutting Screw:

ype: USA Std BT, Federal BG

3341-6 (Must be inserted prior to latch or vertical headers)







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