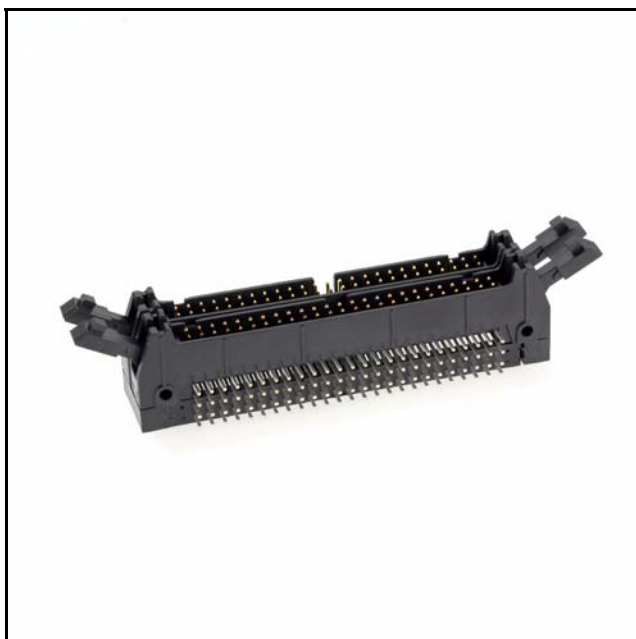


3M™ Four-Wall Condo Header

.100" × .100" Right Angle

3000 Series



- Stacked pins conserve space on the circuit board allowing higher density packaging
- Pin quantity to 128 gives design flexibility with latching
- "HDI" alternative
- 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
- See Regulatory Information Appendix for chemical compliance information

Date Modified: January 31, 2007

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Physical

Insulator

Material: Glass Filled Polyester (PBT), Glass Filled Polyester (PCT) - High Temp. Option
Flammability: UL 94V-0
Color: Gray (PBT), Beige (PCT), Black (PCT)

Contact

Material: Copper Alloy

Plating

Underplating: 100 μ " [2.54 μ m] Nickel - Overall
Wiping Area: 30 μ " [0.76 μ m] Gold
Solder Tails: 200 μ " [5.08 μ m] Tin Lead or Matte Tin (See Ordering Information)
Marking: 3M Logo, Part Identification Number and Orientation Triangle

Electrical

Current Rating: 1 A
Insulation Resistance: $>1 \times 10^9 \Omega$ at 500 V_{DC}
Withstanding Voltage: 1000 V_{RMS} at Sea Level

Environmental

Temperature Rating: -55°C to +105°C
Process Rating: 260°C - (High Temp PCT insulator version), single pass, (profile per J-STD-020C) (PBT insulator version), maximum insulator temperature 191°C (solder wave process only)
Moisture Sensitivity Level: 1 (per J-STD-020C) High Temp. (PCT) versions only

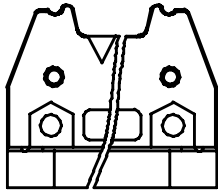
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3M™ Four-Wall Condo Header

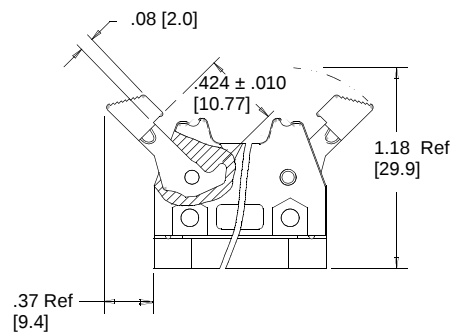
.100" × .100" Right Angle

3000 Series

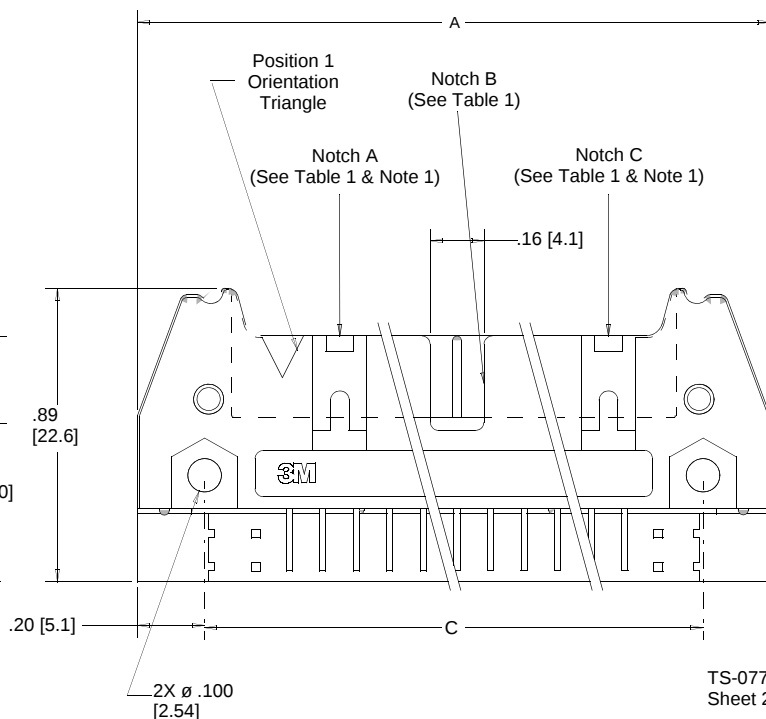
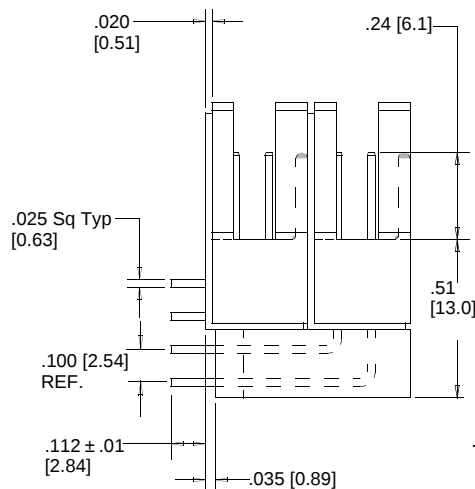
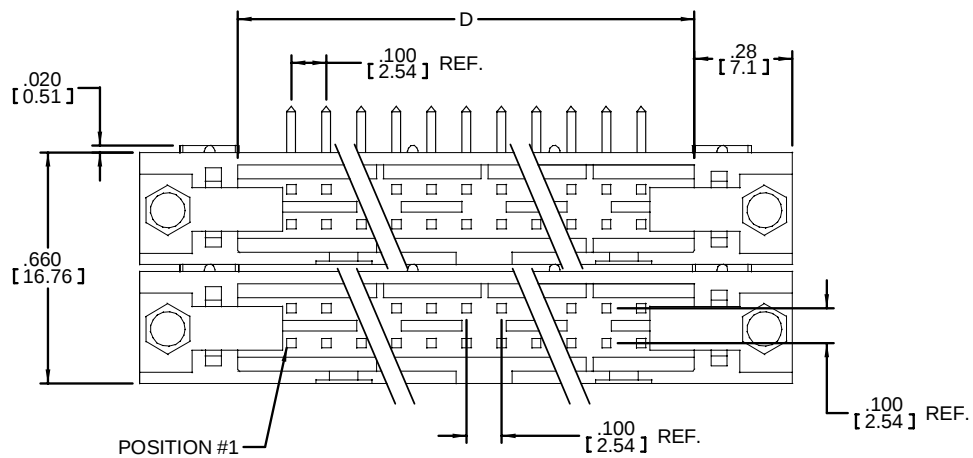
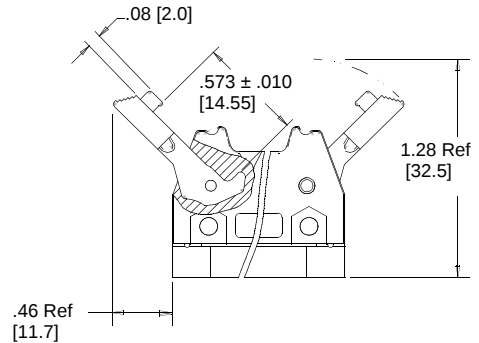
-L00X
Header without Latch Ejectors



-L20X
Header with Short Ejector/Latch
for 3M Sockets without Strain Relief



-L30X
Header with Long Ejector/Latch
for 3M Sockets with Strain Relief



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Sheet 2 of 3

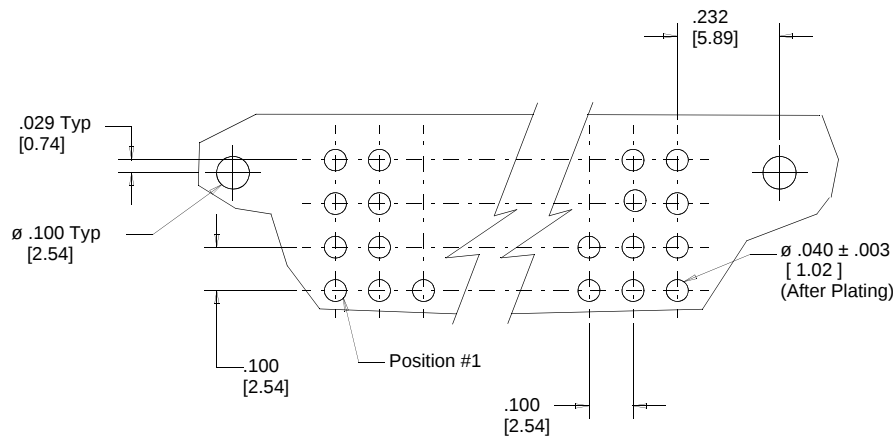
3M™ Four-Wall Condo Header

.100" × .100" Right Angle

3000 Series

Table 1

Pin Quantity	Part Number	Dimensions			Polarization Notches
		A	C	D	
20	3793	1.26 [32.1]	0.865 [21.97]	0.71 [18.0]	B C
28	3314	1.46 [37.2]	1.065 [27.05]	0.91 [23.1]	B C
32	3408	1.56 [39.7]	1.165 [29.59]	1.01 [25.6]	A B C
40	3428	1.76 [44.8]	1.365 [34.67]	1.21 [30.7]	A B C
48	3627	1.96 [49.9]	1.565 [39.75]	1.41 [35.8]	A B C
52	3429	2.06 [52.4]	1.665 [42.29]	1.51 [38.3]	A B C
60	3440	2.26 [57.5]	1.865 [47.37]	1.71 [43.4]	A B C
68	3431	2.46 [62.6]	2.065 [52.45]	1.91 [48.5]	A B C
80	3432	2.76 [70.2]	2.365 [60.07]	2.21 [56.1]	A B C
100	3433	3.26 [82.9]	2.865 [72.77]	2.71 [68.8]	A B C
120	3372	3.76 [95.6]	3.365 [85.47]	3.21 [81.5]	A B C
128	3764	3.96 [100.7]	3.565 [90.55]	3.41 [86.6]	A B C



Recommended Hole Pattern

Notes:

- Notches A & C will accommodate 3M Polarizing Key (3M Part Number 3518 or N3518).
- .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-L502XX) or long (X3XXX-L602XX) styles, installed or shipped separately (-5 & -6 snap-in latches are dimensionally and functionally equivalent to the -2 & -3 roll pin latches)

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

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

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

[] Dimensions for Reference only

Ordering Information

X3XXX-LX02XX

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

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

Latch/Ejector System
0 = No Latch/Ejector Installed
2 = Short, Roll Pin Latch/Ejectors
3 = Long, Roll Pin Latch/Ejectors

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Sheet 3 of 3



Interconnect Solutions

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

3M is a trademark of 3M Company.

For technical, sales or ordering information call

800-225-5373

Regulatory Information Appendix (RIA)

3M Electronic Solutions Division/Interconnect

EUROPE

Appendix E1: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product is RoHS Compliant 2005/95/EC.

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

Appendix E2: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains lead in the compliant pin area in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/747/EC.

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

Appendix E3: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment as amended by Commission Decision 2005/618/EC.

This product contains lead in the solder tail area in excess of the maximum concentration value allowed.

Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

CHINA



Appendix C1: China RoHS

Electronic Industry Standard of the People’s Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.



Appendix C2: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

The numerical reference in the symbol above should not be construed as a representation regarding the product's life or an extension of a product warranty. The product warranty is stated below. In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the product Warranty stated below.

产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
端子镀层(contact plating)	×	○	○	○	○	○
○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)						
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)						

Important Notice

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Warranty; Limited Remedy; Limited Liability.

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