3M United States

3M Worldwide: United States: Electronics Manufacturing

- Solutions for Electronic Specialty Markets (ESM)
 - Product Catalog for Electronic Specialty Markets
 - 3M™ Electronic
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 - 3M™ Breadboards & Test Clips
 - 3M™ Cable & Assemblies
 - 3M™ Copper
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 - 3M™ Fiber Optics
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Product Catalog for Electronic Specialty Markets > 3M[™] Copper Interconnects > Headers > Low Profile, .100 in x .100 in Straight, 2500 Series >

Printer-friendly format 3M™ .100" x .100" 4-Wall Header, Standard, Straight Through-Hole, 30 Contacts, 2530-6002UB



.100" x .100" Low Profile, Straight pin product with bend pad, Solder tails for .062 [1.57] thick board, Mating plating thickness solder tail versions 30μ " [0.76 μ m].

[click to enlarge]

GTIN(UPC/EAN): 0 00 54007 82737 5 3M Id: 80-6105-6527-9

Additional Information

Packaging Data 3M™ .100 in. 4-Wall Hdr,RoHS,LP,Straight&RA,HiTemp, TS0770 - Data Sheet (PDF 1.0 MB) 2530-6002, 3D IGES, rev. 02 - 3D Models (ZIP 529.7 K) 2530-6002, 3D Parasolid, rev. 02 - 3D Models (ZIP 788.5 K) 2530-6002, 3D Step, rev. 02 - 3D Models (ZIP 198.3 K) Please Note: Adobe® Acrobat® Reader is required to view PDF documents.

Reader

Characteristics

Contact Termination Area Plating	200 μ" [5.08 μm] 90/10 Tin/Lead
Contact Underplating	100 μ" [2.54 μm] Nickel
Contact Wiping Area Plating	30 μ" [0.76 μm] Gold
Current Rating	2 Ampere
EPC Can View	Public
EU RoHS Compliant	No
Insulation Flammability Rating	UL 94V-0
Insulation Material	Glass Filled Polyester (PBT)
Insulation Resistance	>1 X 10^9 Ohms @ 500 Vdc
Interface Grid	.100" x .100"

Interface Style	Hooder (Poetangular Plug)
•	Header (Rectangular Plug)
Latch/Ejector Type	None
Markings	3M Logo and Orientation Triangle
Mounting Option	None
Non-Operating Temperature	-55 to 105 Degree Celsius
Number of Contact Rows	2
Number of Contacts	30
Number of Walls	4
Orientation	Vertical
Pitch	0.100 Inch
Polarization	Military & Center Bump
Primary Trademark Name	3M
Separable	Yes
Tail Length	.112 Inch
Termination Method	Solder Tail
Termination Style	Printed Circuit Board
Withstanding Voltage	1000 Vrms at Sea Level

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3M[™] Four-Wall Header

.100" x .100" Low Profile, SMT Straight, Straight and Rt Angle Through-Hole

2500 Series



- Low profile, space saving design
- Center slot polarization prevents mis-insertions and reduces insertion time
- Dual slot polarization means broader compatibility with competitive polarization designs (not 10 pos.)
- Optional retainer clip for locking sockets in place and increasing connection reliability in vibration-prone environments
- Optional high temperature insulator suitable for "no lead" soldering operations
- High temperature option in through-hole version suitable for "paste in hole" reflow soldering techniques
- Exposed solder tails (on right angle version) provide ease of cleaning and reduced repair costs
- Straight surface mount version available
- See regulatory information appendix (RIA) for chemical compliance information

Date Modified: March 24, 2008

TS-0770-E Sheet 1 of 5

Physical

Insulator

Glass Filled Polyester (PBT), Glass Filled Polyester (PCT)-

Material: High Temperature Option

Flammability: UL 94V-0

Color: Gray (PBT), Beige (PCT) or Black (PCT)

Contact Material: Copper Alloy

Plating

Underplating: 100 μ" [2.54 μm] Nickel - Overall Wiping Area: Gold (See Ordering Information)

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: 2A

Insulation Resistance: $>1 \times 10^9 \, \text{W}$ at $500 \, \text{V}_{\text{DC}}$

Withstanding Voltage: $1000 \, V_{RMS}$ at Sea Level

Environmental

Temperature Rating: -55° C to $+105^{\circ}$ C

Process Rating: 260°C, (High Temperature and PCT insulator versions only), single pass,

(profile per J-STD-020C) PBT insulator version, maximum molded

insulator temperature 191°C (solder wave process only)

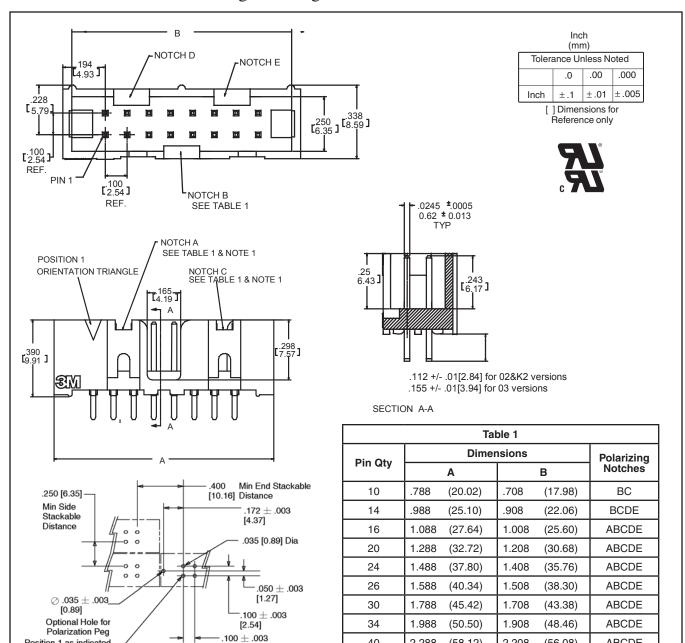
Moisture Sensitivity Level: 1 (per J-STD-020C)

UL File No.: E68080

3M

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



Position 1 as indicated

by Triangle

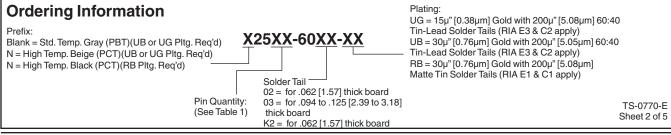
- 1. Notches A & C will accomodate 3M Polarizing Keys (3M Part #3518 or N3518).
- 2. Contact tails .0245 [0.622] wire with .0075 [0.191] corner radii & .028 [.072] diagonal.

[2.54]

- See page 4 for kink tail positions.
- 4. Solder stand offs facilitate .01 clearance above board for reflow soldering.

Recommended P.C. Board Hole Pattern

(Shown for mounting side of board.)



40

50

2.288

2.788

3.288

3.488

(58.12)

(70.82)

(83.52)

(88.60)

2.208

2.708

3.208

3.408

(56.08)

(68.78)

(81.48)

(86.56)

ABCDE

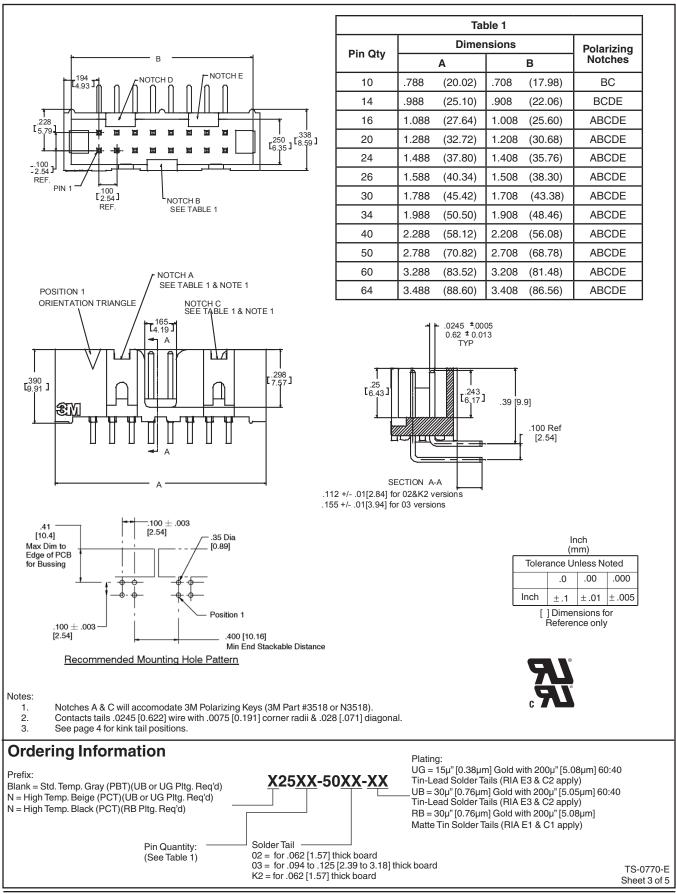
ABCDE

ABCDE

ABCDE

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



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