# 3M<sup>™</sup>Four-Wall Header

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



Center slot polarization prevents mis-insertions and reduces insertion time

25-06009

2500 Series

- Dual slot polarization means broader compatibility with competitive polarization designs (not 6, 8 or 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 the Regulatory Information Appendix (RIA) in the "RoHS Compliance" section of www.3Mconnectors.com for compliance information.

| Date Modified: December 15, 2011 | TS-0770-L    |
|----------------------------------|--------------|
|                                  | Sheet 1 of 5 |

## **Physical**

| Insulator         |  |
|-------------------|--|
| Material:         | Glass Filled Polyester (PBT),<br>Glass Filled Polyester (PCT) - High Temperature Option  |
|                   | Glass Filled Polyester (PCT) - High Temperature Option                                   |
| Flammability:     | UL 94V-0   |
| Color:            | Gray (PBT) or Black (PCT)  |
| Contact Material: | Copper Alloy   |
| Plating           |  |
| Underplating:     | 100 μ" [ 2.54 μm ] Nickel - Overall  |
| Wiping Area:      | Gold (See Ordering Information)  |
| Solder Tails:     | $200\mu^{\prime\prime}$ [ $5.08\mu m$ ] Tin Lead or Matte Tin (See Ordering Information) |
| Marking:          | 3M Logo, Part Identification Number and Orientation Triangle                             |

# Electrical

| Current Rating:                                 | 5.00 A, 1 Contact Powered<br>3.00 A, 6 Contacts Powered<br>1.75 A, All Contacts Powered<br>Rating Conditions: EIA-364-070 Method 2, 30°C maximum temperature rise, 20% derated.<br>Reference appropriate 3M Product Specification for detailed current derating curves. |
|---|---|
| Insulation Resistance:<br>Withstanding Voltage: |   |

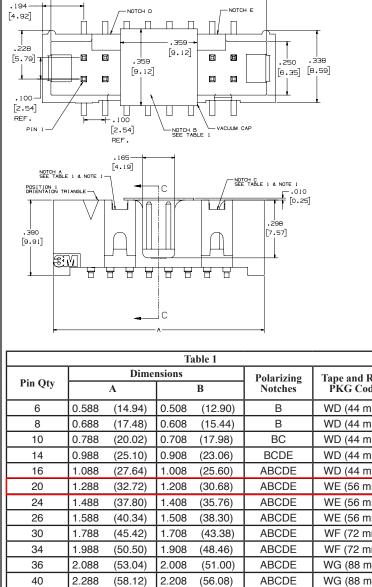
## Environmental

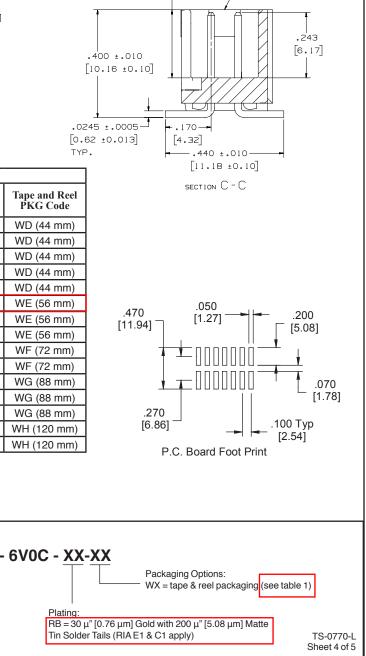
| <b>Temperature Rating:</b>  | -55°C to +105°C   |
|-----------------------------|---|
| Process Rating:             | High Temp PCT insulator version: 260°C, per J-STD-020C, single pass<br>PBT insulator version: 191°C, maximum insulator temperature, solder wave<br>process only |
| Moisture Sensitivity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

UL File No.: E68080

# 3M<sup>™</sup>Four-Wall Header

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





Inch

(mm) **Tolerance Unless Noted** 

[] Dimensions for

Reference only

±.01

.0 .00

±.1

.253

[6.43]

Inch

.000

±.005

Notes:

50

60

64

1. Notches A & C will accommodate 3M Polarizing Key N3518.

(70.82)

(83.52)

(88.60)

2. Vacuum cap will be centered on connectors.

2.788

3.288

3.488

3. Coplanarity .004 for less than 30 position, .006 for 30 and above.

2.708

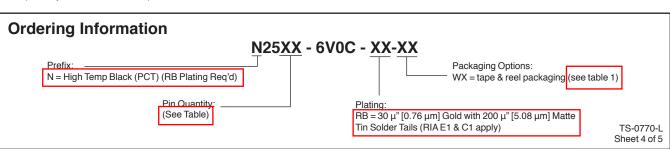
3.208

3.408

(68.78)

(81.48)

(86.56)



ABCDE

ABCDE

ABCDE

### 3M

**Electronic Solutions Division** Interconnect Solutions http://www.3Mconnectors.com

### 2500 Series

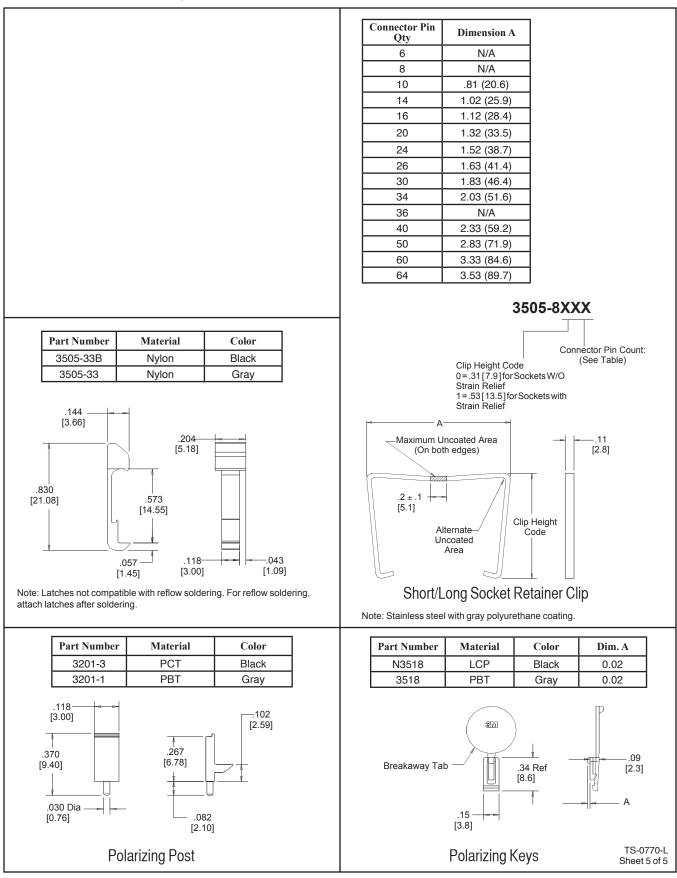
VACUUM CAP REMOVED FOR CLARITY THIS VIEW

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# $3M^{\text{TM}}$ Four-Wall Header

## .100" x .100" Low Profile, Accessories

## 2500 Series



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