# 3M<sup>™</sup> Four-Wall Header

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

D2500 Series



- · Low profile, space saving design
- Center slot polarization designed to prevent misinsertions and reduce insertion time
- 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 vibrationprone environments
- High temperature insulator suitable for "no lead" soldering operations
- High temperature insulator in through-hole version suitable for "paste in hole" reflow soldering
- Exposed solder tails (on right angle version) are designed to provide ease of cleaning and help reduce repair costs
- Straight surface mount version available
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnectors.com for compliance information

Date Modified: June 13, 2012

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## **Physical**

**Insulator** 

Material: High Temp Glass Filled Polyester (PCT)

Flammability: UL 94V-0

Color: Black (PCT)

Contact Material: Brass

**Plating** 

Underplating:  $50-100 \mu$ " [  $1.25 \mu$ m ] Ni Wiping Area:  $10 \mu$ " [  $0.25 \mu$ m ] Gold

Solder Tails:  $40 - 120 \mu$ " [  $1-3 \mu$ m ] Matte Tin

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

#### **Electrical**

Current Rating: 5.00 A, 1 Contact Powered

3.00 A, 6 Contacts Powered 1.75 A, All Contacts Powered

Rating Conditions: EIA-364-070 Method 2, 30°C maximum temperature rise, 20% derated. Reference appropriate 3M Product Specification for detailed

current derating curves.

Insulation Resistance:  $>1 \times 10^{9} \Omega$  at  $500 \text{ V}_{DC}$ Withstanding Voltage:  $1,000 \text{ V}_{RMS}$  at Sea Level

#### **Environmental**

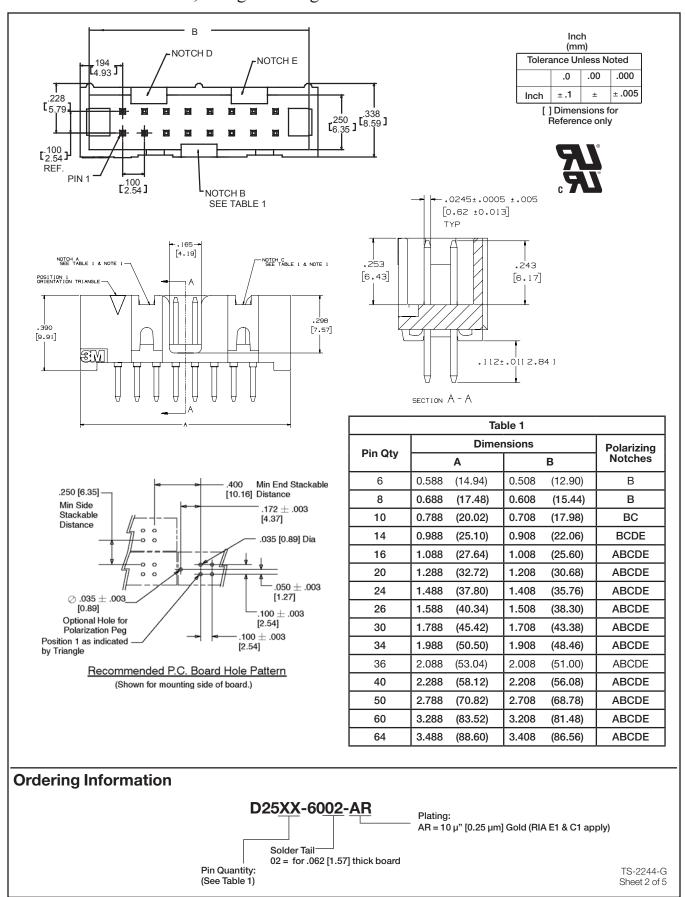
**Temperature Rating:** -55°C to +105°C

**Process Rating:** 260°C single pass (profile per J-STD-020C)

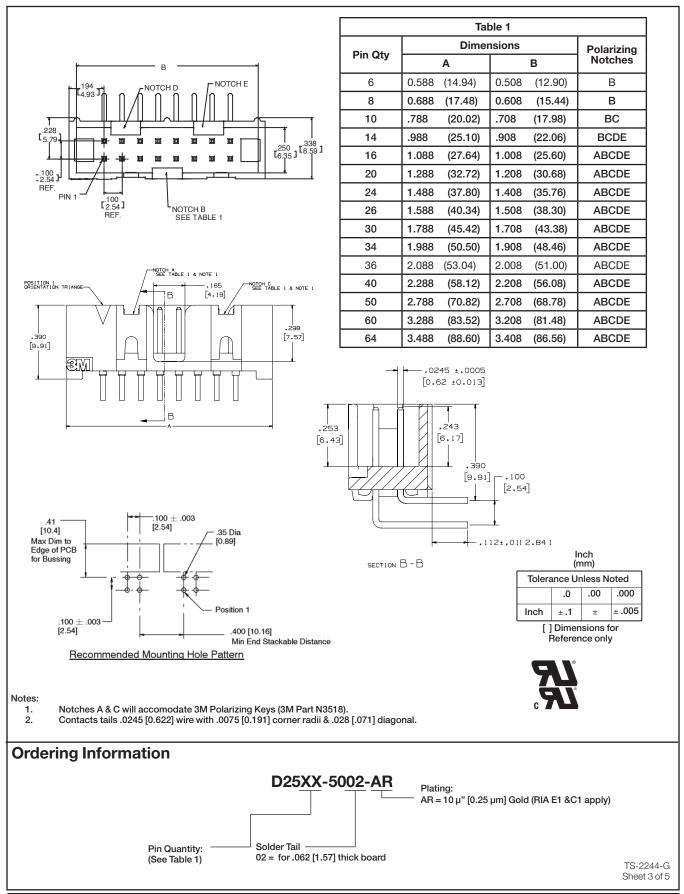
Moisture Sensitivity Level: 1 (per J-STD-020C)

UL File No.: E68080

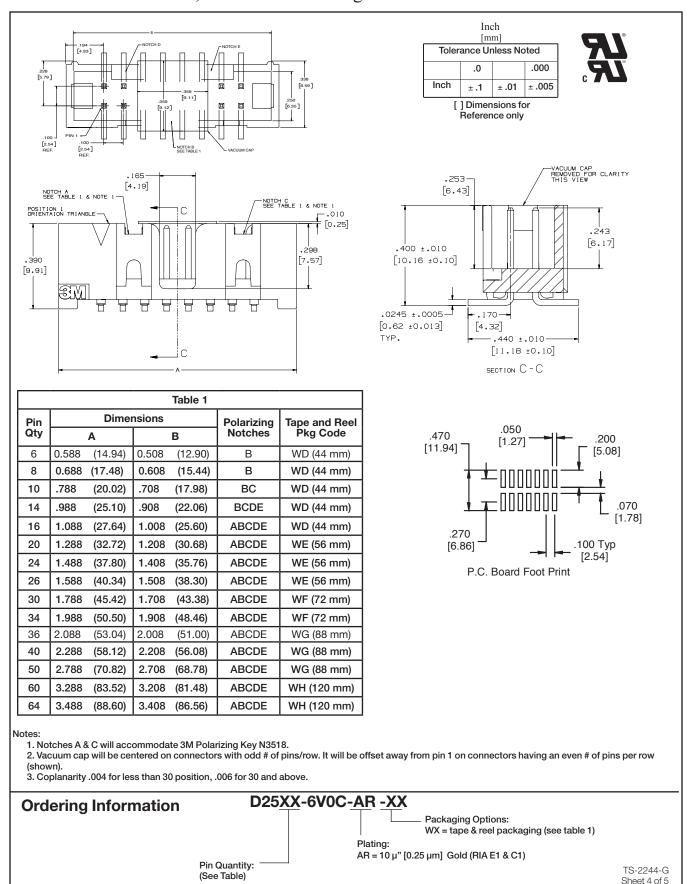
.100" x .100" Low Profile, Straight Through-Hole



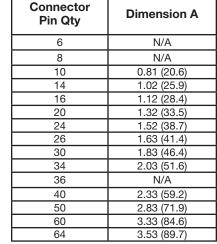
.100" x .100" Low Profile, Right Angle Through-Hole



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

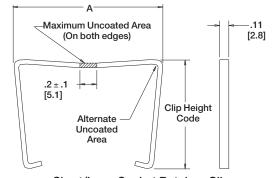


.100" x .100" Low Profile, Accessories



3505-8XXX Connector Pin Count: (See Table) Clip Height Code

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



Short/Long Socket Retainer Clip

Color

Black

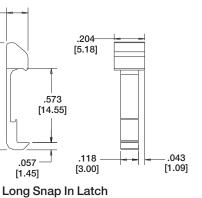
Dim A

0.02

Material

LCP

i iii Qty	
6	N/A
8	N/A
10	0.81 (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)



Color

Black

Color

Black

Material

Nylon

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

**Part Number** 

3201-3

**Part Number** 

3505-33B

.144

[3.66]

.830 [21.08]

.118	.102
.370 [9.40]	.267 [6.78]
[0.76]	082 [2.10]

**Polarizing Post** 

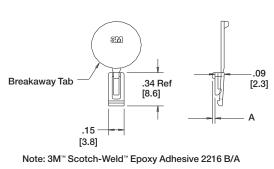
Material

PCT

Br

**Part Number** 

N3518



Polarizing Keys

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