3M™ Pak 100 4-Wall Header

.100" × .100" Low Profile, Straight and Right Angle, High Temp Option 2500 Series



- Low profile, space saving design
- Socket compatibility for current design validation
- Center slot polarization prevents mis-insertions and reduces insertion time
- Dual slot polarization means broader compatibility with competitive polarization designs
- Optional retainer clamp for locking sockets in place and increasing connection reliability in vibration-prone environments
- Optional snap-in latches available
- Optional polarizing post available
- Exposed solder tails (on right angle version) provide ease of cleaning and reduced repair costs

Date Modified: May 30, 2003

TS-0770-11 Sheet 1 of 3

Physical

Insulation

Material: Glass Filled Polyester (PBT)

Glass Filled Polyester (PCT)(High Temp Option)

Flammability: UL 94V-0

Color: Gray

Beige (High Temp Option)

Contact

Material: Copper Alloy

Plating

Underplate: $100 \mu''$ [$2.54 \mu m$] Nickel — QQ-N-290, Class 2

Wiping Area: Gold — MIL-G-45204, Type II, Grade C

Solder Tails: $200 \,\mu^{\prime\prime}$ [$5.08 \,\mu m$] 60/40 Tin Lead — MIL-P-81728

Wrap Tails: Gold Flash (Normal Temp Only)

Marking: 3M Logo, and Orientation Triangle

Electrical

Current Rating: 2 A

Insulation Resistance: >1 \times 10⁹ Ω at 500 Vdc **Withstanding Voltage:** 1000 Vrms at Sea Level

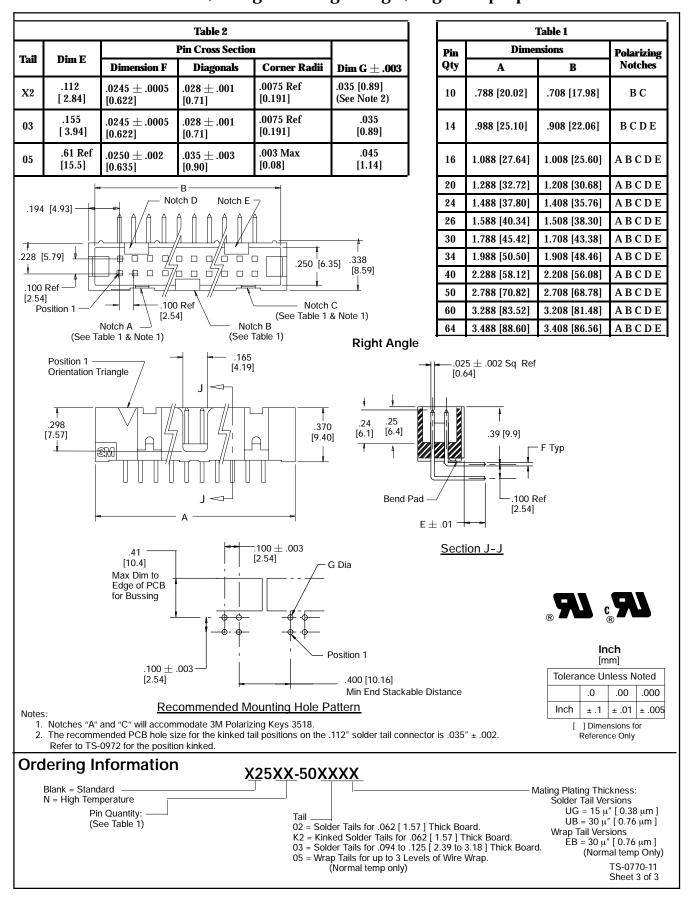
Environmental

Temperature Rating: -55°C to +105°C

Processing: Maximum 235°C, with 90 seconds over 215°C (High Temp Option)

UL File No.: E68080

Table 2 Table 1 Pin Cross Section Dimensions Pin Polarizing Tail Dim E **Notches** Dimension F **Diagonals** Corner Radii Qty A В ${\rm Dim}\,{\rm G}\pm.003$.0075 Ref .035 [0.89] .112 $.0245 \pm .0005$ $.028 \pm .001$ **X2** 10 .788 [20.02] .708 [17.98] BC [2.84] [0.191](See Note 2) [0.622][0.71].0075 Ref .035 .155 $.0245 \pm .0005$ $.028\pm.001$ 03 .988 [25.10] .908 [22.06] BCDE [3.94][0.622][0.71][0.191][0.89].61 Ref .003 Max .045 $.0250 \pm .002$ $.035\pm.003$ 1.088 [27.64] ABCDE 05 16 1.008 [25.60] [0.08][15.5][1.14][0.635][0.90]20 1.208 [30.68] ABCDE 1.288 [32.72] В .250 [6.35] 24 1.488 [37.80] 1.408 [35.76] ABCDE .194 [4.93] Notch D Notch E 26 1.588 [40.34] 1.508 [38.30] ABCDE 30 1.788 [45.42] 1.708 [43.38] ABCDE .228 [5.79] ____ 3,38 [8.59] 0 0 34 1.988 [50.50] 1.908 [48.46] ABCDE .100 Ref 40 2.288 [58.12] 2.208 [56.08] ABCDE [2.54]Notch C .100 Ref 50 2.788 [70.82] 2.708 [68.78] ABCDE Position 1 (See Table 1 & Note 1) [2.54]Straight Notch B 60 3.288 [83.52] 3.208 [81.48] ABCDE Notch A (See Table 1) (See Table 1 & Note 1) 64 3.488 [88.60] 3.408 [86.56] ABCDE 165 [4.19] Position 1 Orientation $0.025\pm0.002~\mathrm{Sq}~\mathrm{Ref}$ Triangle [0.64].25 .24 370 .298 [7.57] [6.1] [6.4] [9.40] E + .012 F Typ Bend Pad .100 Ref Min End Stackable [2.54].250 [6.35] [10.16] Distance Section J-J Min Side $.172 \pm .003$ Stackable [4.37] Distance 0 G Dia 0 $.050 \pm .003$ \oslash .035 \pm .003 [1.27] [0.89] $100 \pm .003$ Optional Hole for [2.54]Polarization Peg Inch $.100 \pm .003$ [mm] Position 1 as indicated [2.54] by Triangle Tolerance Unless Noted Recommended P.C. Board Hole Pattern .000 (Shown for mounting side of board.) Inch ± .1 ± .01 ± .005 Notches "A" and "C" will accommodate 3M Polarizing Keys 3518. 1 Dimensions for The recommended PCB hole size for the kinked tail positions on the .112" solder tail connector is .035" ± .002. Reference Only Refer to TS-0972 for the positions kinked. Ordering Information X25XX-X0XXXX Mating Plating Thickness: Blank = Standard N = High Temperature Solder Tail Versions UG = 15 μ" [0.38 μm] UB = 30 μ" [0.76 μm] Pin Quantity: (See Table 1) Wrap Tail Versions 02 = Solder Tails for .062 [1.57] Thick Board. K2 = Kinked Solder Tails for .062 [1.57] Thick Board. 03 = Solder Tails for .094 to .125 [2.39 to 3.18] Thick Board. Bend Pad Option: $\dot{E}B = 30 \,\mu'' \,[\,0.76 \,\mu m\,]$ 6= Straight pin product with bend pad in (Normal temp Only) High temp or normal plastics 05 = Wrap Tails for up to 3 Levels of Wire Wrap. TS-0770-11 7= Straight pin product w/o bend pad in (Normal temp only) Sheet 2 of 3 High temp only



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