## 3M<sup>™</sup> 4-Wall, Tripolarized Header

.050" × .100" Latch/Ejector, PTH & SMT Straight, PTH Right Angle

810 Series



#### **Physical**

#### Insulation:

Material:	High Temperature Plastic (LCP)
Flammability:	UL 94V-0
Color:	Black
Contact:	
Material:	Copper Alloy
Plating:	
Underplating:	100 μ" [2.54 mm] Nickel
Wiping Area:	30 µ" [0.76 mm] Gold
Solder Tails:	Matte Tin or Tin Lead (See Ordering Information)
Marking:	3M Logo, Part Number and Orientation Triangle
Mating Compatibility:	820 Series (TS-0254)

#### **Electrical**

Current Rating:	3.00 A, 1 Contact Powered 2.00 A, 4 Contacts Powered 0.75 A, All Contacts powered
	Rating Conditions: EIA-364-070 Method 2, 30 degrees C maximum temperature rise, 20% derated. Reference appropriate 3M Product Specification for detailed current derating curves.
<b>Insulation Resistance:</b>	$>$ 1 $\times$ 10 <sup>9</sup> $\Omega$ at 500 V <sub>DC</sub>
Withstanding Voltage:	$500 V_{RMS}$ at Sea Level

#### **Environmental**

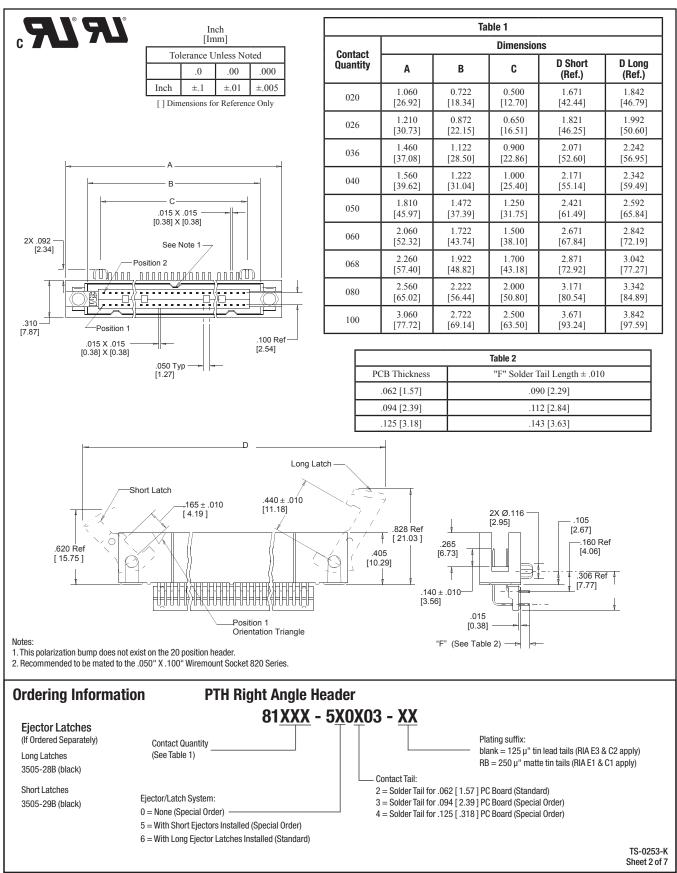
Temperature Rating:-55°C to +105°CProcess Rating:Maximum 260°C (Profile per J-STD-020C)Moisture Sensitivity Level:1 (per J-STD-020C)

UL File No.: E68080

# 3M<sup>™</sup> 4-Wall, Tripolarized Header

 $.050" \times .100"$  Latch/Ejector, PTH & SMT Straight, PTH Right Angle

810 Series

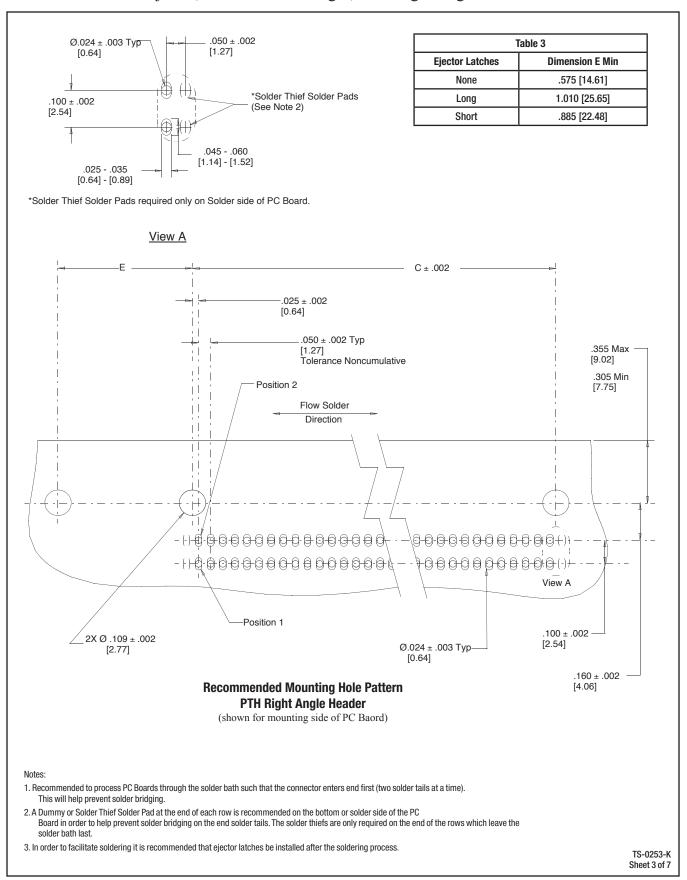


ЗМ

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

## 3M<sup>TM</sup> 4-Wall, Tripolarized Header .050" × .100" Latch/Ejector, PTH & SMT Straight, PTH Right Angle

810 Series



ЗМ

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

# $3M^{\text{TM}} \text{ 4-Wall, Tripolarized Header} \\ .050'' \times .100'' \text{ Latch/Ejector, PTH & SMT Straight, PTH Right Angle}$

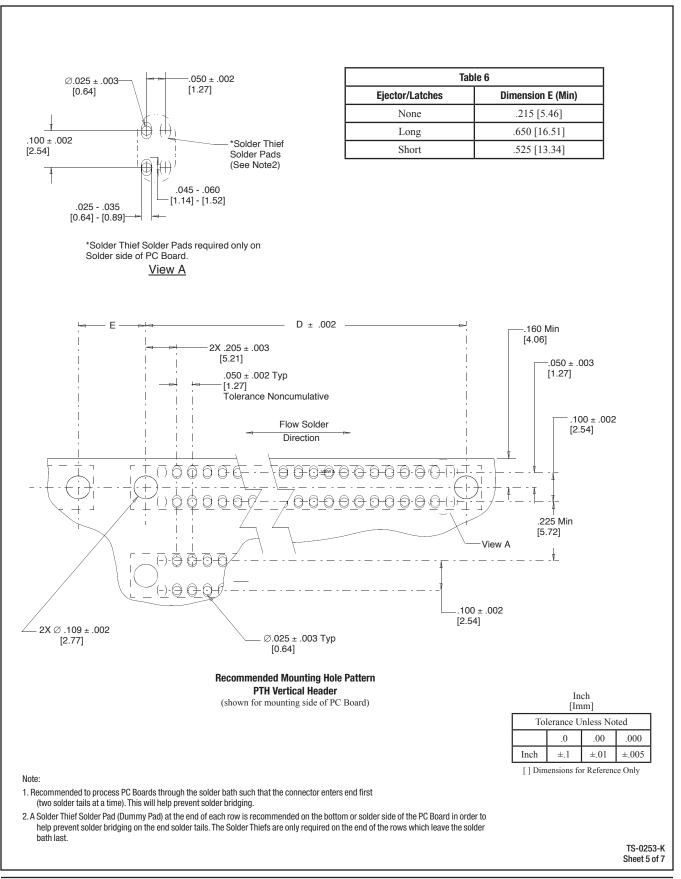
810 Series

			Table 4			
Contact			Dimensions			
Quantity	A	В	C Short (Ref.)	C Long (Ref.)	D	
020	1.060 [26.92]	0.722 [18.34]	1.671 [42.44]	1.842 [46.79]	0.860 [21.8	84]
026	1.210 [30.73]	0.872 [22.15]	1.821 [46.25]	1.992 [50.60]	1.010 [25.6	65]
036	1.460 [37.08]	1.122 [28.50]	2.071 [2.60]	2.242 [56.95]	1.260 [32.0	00]
040	1.560 [39.62]	1.222 [31.04]	2.171 [55.14]	2.342 [59.49]	1.360 [34.5	54]
050	1.810 [45.97]	1.472 [37.39]	2.421 [61.49]	2.592 [65.84]	1.610 [40.8	39]
060	2.060 [52.32]	1.722 [43.74]	2.671 [67.84]	2.842 [72.19]	1.860 [47.2	24]
068	2.260 [57.40]	1.922 [48.82]	2.871 [72.92]	3.042 [77.27]	2.060 [52.3	32]
080	2.560 [65.02]	2.222 [56.44]	3.171 [80.54]	3.342 [84.89]	2.360 [59.9	94]
100	3.060 [77.72]	2.722 [69.14]	3.671 [93.24]	3.842 [97.59]	2.860 [72.6	64]
	Α	\				Table 5
				PC	B Thickness	"F" Solder Tail Length ± .010
.310	• E	3			.062 [1.57]	.092 [2.34]
[7.87]	Se	e Note 1-			.094 [2.39]	.110 [2.79]
	Ľ	7]				Left [6.73]
165 [4.18 of] [2.4] [2.4] [2.95]	1			.028 Ref [21.03] .405 [10.29] .015 [38] Optional Press fripost mount alignment feature	.05 F Cont Matir Point	Ref $\frac{1}{1}$ $140 +$
A 18 A	Desition 1 Orienteet		raight Header	(ica) (ica)(	Cont Matir Point Point Plat blar RB = ng Options:	hef $\frac{1}{4}$

#### ЗМ

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

## 3M<sup>™</sup> 4-Wall, Tripolarized Header .050" × .100" Latch/Ejector, PTH & SMT Straight, PTH Right Angle

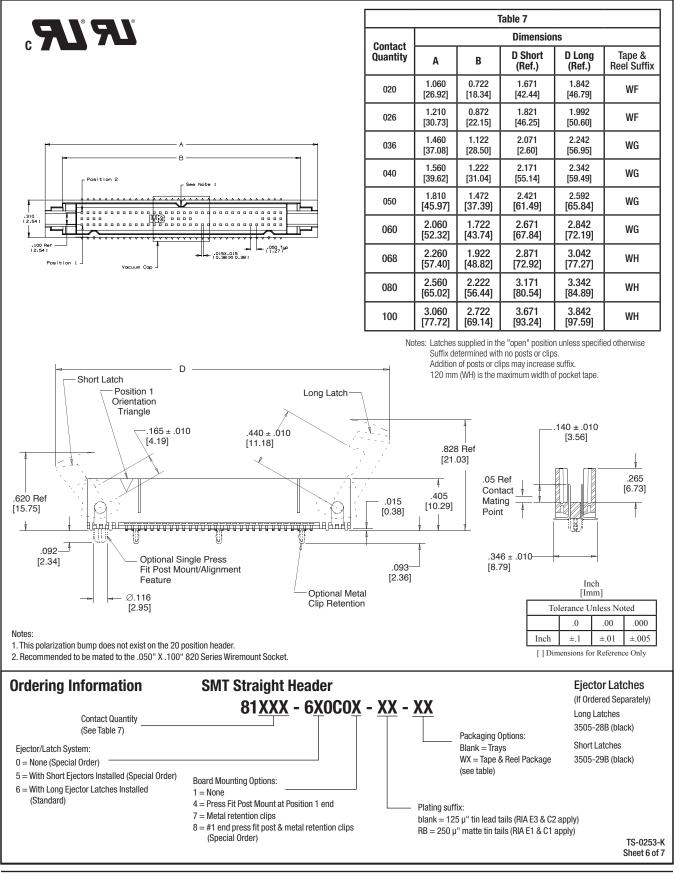


**3M** Electronic Solutions Division Interconnect Solutions http://www.3Mconnectors.com

# 3M<sup>TM</sup> 4-Wall, Tripolarized Header

.050" × .100" Latch/Ejector, PTH & SMT Straight, PTH Right Angle

810 Series

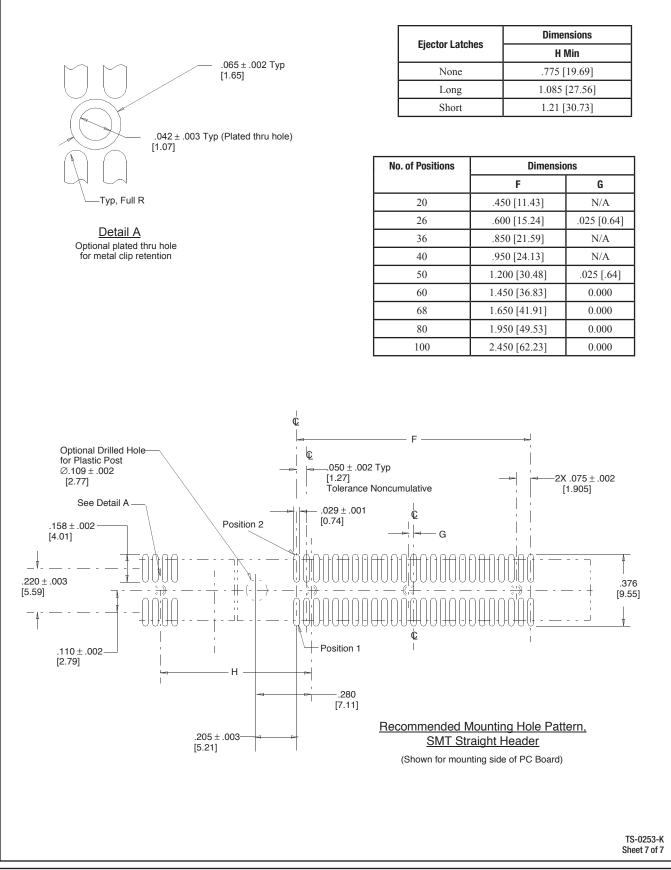


ЗМ

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

## 3M<sup>TM</sup> 4-Wall, Tripolarized Header .050" × .100" Latch/Ejector, PTH & SMT Straight, PTH Right Angle

810 Series



#### **Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

#### Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of ninety (90) days from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.** 



**3M Electronics Solutions Division** 6801 River Place Blvd. Austin, TX 78726-9000 U.S.A. 1-800-225-5373 www.3Mconnectors.com

Please recycle. Printed in USA. © 3M 2012. All rights reserved. RIA-2217B-E

3M is a trademark of 3M Company.

### **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

#### **3M**:

81020-500203
81020-560203
81020-600201
81020-600303
81020-600C04
81020-660203
81020-6600203
81020-6600203
81020-6600203
81020-6600203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81026-650203
81040-650203
81040-650203
81040-650203
81040-650203
81040-650203
81040-650203
81068-550203
81068-550203
81068-550203
81068-550203
81068-550203
81068-550203
81080-650203
81080-650203
81080-650203
81080-650203
81080-650203
81080-650203
81080-650203
81080-650203
81080-650203
81080-650203
81080-650203
81080-650203
81080-650203
81080-650203
81080-650203
81000-660201
81100-660201
81100-660