

3M Low Profile Headers (Protected Headers)

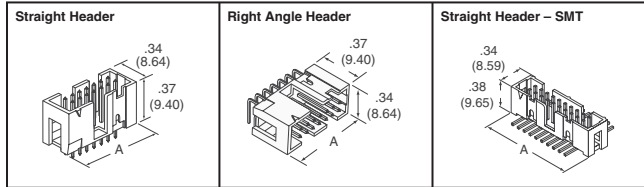


PHYSICAL:
 • Flammability: UL 94V-0 • Marking: 3M logo, Part Identification Number and Orientation Triangle **ELECTRICAL:**
 • Current Rating: 2A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS at Sea Level
ENVIRONMENTAL
 • Temperature Rating: -55°C - 105°C • UL File No.: E68080

2500 Series Non-Compliant Specifications:
Insulation: • Material: Glass filled Polyester (PBT) • Color: Gray • Contact Material: Phosphor Bronze (C510) **Plating:**
 • Underplating: 100µ" Nickel-QQ-N-290, Class 2 • Wiping Area: Gold-MIL-G-45204, Type II, Grade C • Solder Tails: 200µ" 60/40 Tin Lead-MIL-P-81728 • CSA File No.: LR 40971

2500 Series RoHS Compliant Specifications:
Process Rating: • 260°C Single pass (profile per J-STD-020C) **Insulation:** • Material: Glass Filled Polyester (PBT), Glass Filled Polyester (PCT) High Temperature option • Contact Material: Copper Alloy **Plating:** • Underplating: 100µ" (2.54µm) Nickel - Overall • Wiping Area: Gold • Solder Tails: 200µ" (5.08µm) Tin Lead or Matte Tin

D2500 Series Specifications:
Process Rating: • 260°C Single pass (profile per J-STD-020C) **Insulation:** • Material: High Temperature Glass Filled Polyester (PCT) • Color: Black • Contact Material: Brass **Plating:** • Underplating: 50 - 100µ" Nickel • Wiping Area: 10µ" (0.25µm) Gold • Solder Tails: 40 - 120µ" (1 - 3µm) Matte Tin



No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	1	Pricing 100	500	3M Part No.
Straight Header						
10	0.788 (20.02)	MHB10K-ND	1.21	91.77	415.27	2510-6002UB
14	0.988 (25.10)	MHB14K-ND	1.26	95.21	430.84	2514-6002UB
16	1.088 (27.64)	MHB16K-ND	1.39	105.53	477.56	2516-6002UB
20	1.288 (32.72)	MHB20K-ND	1.45	110.12	498.33	2520-6002UB
24	1.488 (37.80)	MHB24K-ND	1.52	115.86	524.28	2524-6002UB
26	1.588 (40.34)	MHB26K-ND	1.55	118.15	534.66	2526-6002UB
30	1.788 (45.42)	MHB30K-ND	1.80	136.50	617.72	2530-6002UB
34	1.988 (50.50)	MHB34K-ND	1.86	141.09	638.48	2534-6002UB
40	2.288 (58.12)	MHB40K-ND	2.00	151.41	685.20	2540-6002UB
50	2.788 (70.82)	MHB50K-ND	2.48	188.12	851.31	2550-6002UB
60	3.288 (83.52)	MHB60K-ND	2.96	224.83	1017.42	2560-6002UB
Straight Header - SMT						
10	0.788 (20.02)	MHB10K-ND	1.21	91.77	415.27	2510-6002UB
14	0.988 (25.10)	MHB14K-ND	1.26	95.21	430.84	2514-6002UB
16	1.088 (27.64)	MHB16K-ND	1.39	105.53	477.56	2516-6002UB
20	1.288 (32.72)	MHB20K-ND	1.45	110.12	498.33	2520-6002UB
24	1.488 (37.80)	MHB24K-ND	1.52	115.86	524.28	2524-6002UB
26	1.588 (40.34)	MHB26K-ND	1.55	118.15	534.66	2526-6002UB
30	1.788 (45.42)	MHB30K-ND	1.80	136.50	617.72	2530-6002UB
34	1.988 (50.50)	MHB34K-ND	1.86	141.09	638.48	2534-6002UB
40	2.288 (58.12)	MHB40K-ND	2.00	151.41	685.20	2540-6002UB
50	2.788 (70.82)	MHB50K-ND	2.48	188.12	851.31	2550-6002UB
60	3.288 (83.52)	MHB60K-ND	2.96	224.83	1017.42	2560-6002UB
Straight Solder Tail, Gray PBT						
10	0.788 (20.02)	MHB10K-ND	1.21	91.77	415.27	2510-6002UB
14	0.988 (25.10)	MHB14K-ND	1.26	95.21	430.84	2514-6002UB
16	1.088 (27.64)	MHB16K-ND	1.39	105.53	477.56	2516-6002UB
20	1.288 (32.72)	MHB20K-ND	1.45	110.12	498.33	2520-6002UB
24	1.488 (37.80)	MHB24K-ND	1.52	115.86	524.28	2524-6002UB
26	1.588 (40.34)	MHB26K-ND	1.55	118.15	534.66	2526-6002UB
30	1.788 (45.42)	MHB30K-ND	1.80	136.50	617.72	2530-6002UB
34	1.988 (50.50)	MHB34K-ND	1.86	141.09	638.48	2534-6002UB
40	2.288 (58.12)	MHB40K-ND	2.00	151.41	685.20	2540-6002UB
50	2.788 (70.82)	MHB50K-ND	2.48	188.12	851.31	2550-6002UB
60	3.288 (83.52)	MHB60K-ND	2.96	224.83	1017.42	2560-6002UB
Straight Solder Tail, Black PCT - 10µ" Gold - RoHS Compliant						
10	0.788 (20.02)	MHC10E-ND	.68	51.62	233.59	D2510-6002-AR
14	0.988 (25.10)	MHC14E-ND	.77	58.50	264.74	D2514-6002-AR
16	1.088 (27.64)	MHC16E-ND	.86	65.38	295.88	D2516-6002-AR
20	1.288 (32.72)	MHC20E-ND	.89	67.68	306.26	D2520-6002-AR
24	1.488 (37.80)	MHC24E-ND	.95	72.27	327.03	D2524-6002-AR
26	1.588 (40.34)	MHC26E-ND	.97	73.41	332.22	D2526-6002-AR
30	1.788 (45.42)	MHC30E-ND	1.12	84.88	384.13	D2530-6002-AR
34	1.988 (50.50)	MHC34E-ND	1.16	88.33	399.70	D2534-6002-AR
40	2.288 (58.12)	MHC40E-ND	1.24	94.06	425.65	D2540-6002-AR
50	2.788 (70.82)	MHC50E-ND	1.52	115.86	524.28	D2550-6002-AR
Straight Solder Tail, Black PCT - 30µ" Gold - RoHS Compliant						
10	0.788 (20.02)	MHC10K-ND	.99	75.71	342.60	N2510-6002RB
14	0.988 (25.10)	MHC14K-ND	1.02	78.00	352.98	N2514-6002RB
16	1.088 (27.64)	MHC16K-ND	1.15	87.18	394.51	N2516-6002RB
20	1.288 (32.72)	MHC20K-ND	1.19	90.62	410.08	N2520-6002RB
24	1.488 (37.80)	MHC24K-ND	1.27	96.35	436.04	N2524-6002RB
26	1.588 (40.34)	MHC26K-ND	1.29	97.50	441.23	N2526-6002RB
30	1.788 (45.42)	MHC30K-ND	1.48	112.41	508.71	N2530-6002RB
34	1.988 (50.50)	MHC34K-ND	1.54	117.00	529.47	N2534-6002RB
40	2.288 (58.12)	MHC40K-ND	1.65	125.03	565.81	N2540-6002RB
50	2.788 (70.82)	MHC50K-ND	2.04	154.86	700.77	N2550-6002RB
60	3.288 (83.52)	MHC60K-ND	2.45	185.83	840.93	N2560-6002RB
64	3.488 (88.60)	MHC64K-ND	2.60	197.30	892.83	N2564-6002RB
Right Angle Solder Tail, Gray PBT - 30µ" Gold						
10	0.788 (20.02)	MHD10K-ND	1.33	100.94	456.80	2510-5002UB
14	0.988 (25.10)	MHD14K-ND	1.37	104.38	472.37	2514-5002UB
16	1.088 (27.64)	MHD16K-ND	1.52	115.86	524.28	2516-5002UB
20	1.288 (32.72)	MHD20K-ND	1.62	122.74	555.43	2520-5002UB
24	1.488 (37.80)	MHD24K-ND	1.68	127.33	576.19	2524-5002UB
26	1.588 (40.34)	MHD26K-ND	1.69	128.47	581.38	2526-5002UB
30	1.788 (45.42)	MHD30K-ND	2.31	175.50	794.21	2530-5002UB
34	1.988 (50.50)	MHD34K-ND	2.03	153.71	695.58	2534-5002UB
40	2.288 (58.12)	MHD40K-ND	2.19	166.33	752.68	2540-5002UB
50	2.788 (70.82)	MHD50K-ND	2.70	205.33	929.17	2550-5002UB
Right Angle Solder Tail, Black PCT - 10µ" Gold - RoHS Compliant						
10	0.788 (20.02)	MHE10E-ND	.74	56.21	254.35	D2510-5002-AR
14	0.988 (25.10)	MHE14E-ND	.84	64.24	290.69	D2514-5002-AR
16	1.088 (27.64)	MHE16E-ND	.95	72.27	327.03	D2516-5002-AR
20	1.288 (32.72)	MHE20E-ND	.99	75.71	342.60	D2520-5002-AR
24	1.488 (37.80)	MHE24E-ND	1.05	79.15	358.17	D2524-5002-AR
26	1.588 (40.34)	MHE26E-ND	1.06	80.30	363.36	D2526-5002-AR
30	1.788 (45.42)	MHE30E-ND	1.44	108.97	493.14	D2530-5002-AR
34	1.988 (50.50)	MHE34E-ND	1.26	95.21	430.84	D2534-5002-AR
40	2.288 (58.12)	MHE40E-ND	1.36	103.24	467.18	D2540-5002-AR
50	2.788 (70.82)	MHE50E-ND	1.68	127.33	576.19	D2550-5002-AR
Right Angle Solder Tail, Black PCT - 30µ" Gold - RoHS Compliant						
10	0.788 (20.02)	MHE10K-ND	1.10	83.74	378.94	N2510-5002RB
14	0.988 (25.10)	MHE14K-ND	1.13	86.03	389.32	N2514-5002RB
16	1.088 (27.64)	MHE16K-ND	1.27	96.35	436.04	N2516-5002RB
20	1.288 (32.72)	MHE20K-ND	1.33	100.94	456.80	N2520-5002RB
24	1.488 (37.80)	MHE24K-ND	1.39	105.53	477.56	N2524-5002RB

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	1	Pricing 100	500	3M Part No.
26	1.588 (40.34)	MHE26K-ND	1.40	106.68	482.75	N2526-5002RB
30	1.788 (45.42)	MHE30K-ND	1.90	144.53	654.05	N2530-5002RB
34	1.988 (50.50)	MHE34K-ND	1.68	127.33	576.19	N2534-5002RB
40	2.288 (58.12)	MHE40K-ND	1.82	137.65	622.91	N2540-5002RB
50	2.788 (70.82)	MHE50K-ND	2.24	169.77	768.25	N2550-5002RB
60	3.288 (83.52)	MHE60K-ND	2.69	204.18	923.98	N2560-5002RB
64	3.488 (88.60)	MHE64K-ND	2.87	217.95	986.27	N2564-5002RB

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	1	Cut Tape Pricing 100	T & R [†] Pricing 200	3M Part No.
Straight, Black PCT, SMT - 30µ" Gold - RoHS Compliant						
10	.788 (20.02)	MSH10KCT-ND	1.15	87.18	165.53	N2510-6VOC-RB-WD
14	.988 (25.10)	MSH14KCT-ND	1.18	89.47	169.88	N2514-6VOC-RB-WD
16	1.088 (27.64)	MSH16KCT-ND	1.30	98.65	187.31	N2516-6VOC-RB-WD
20	1.288 (32.72)	MSH20KCT-ND	1.34	102.09	193.84	N2520-6VOC-RB-WD
24	1.488 (37.80)	MSH24KCT-ND	1.42	107.83	204.73	N2524-6VOC-RB-WD
26	1.588 (40.34)	MSH26KCT-ND	1.44	108.97	206.91	N2526-6VOC-RB-WD
30	1.788 (45.42)	MSH30KCT-ND	1.63	123.88	235.22	N2530-6VOC-RB-WD
34	1.988 (50.50)	MSH34KCT-ND	1.69	128.47	243.94	N2534-6VOC-RB-WD
40	2.288 (58.12)	MSH40KCT-ND	1.80	136.50	259.18	N2540-6VOC-RB-WD
50	2.788 (70.82)	MSH50KCT-ND	2.19	166.33	315.81	N2550-6VOC-RB-WD
60	3.288 (83.52)	MSH60KCT-ND	2.60	197.30	374.62	N2560-6VOC-RB-WD
64	3.488 (88.60)	MSH64KCT-ND	2.75	208.77	396.40	N2564-6VOC-RB-WD
Straight, Black PCT, SMT - 10µ" Gold - RoHS Compliant						
10	.788 (20.02)	MSH10ECT-ND	.76	57.35	108.90	D2510-6VOC-AR-WD
14	.988 (25.10)	MSH14ECT-ND	.89	67.68	128.50	D2514-6VOC-AR-WD
16	1.088 (27.64)	MSH16ECT-ND	.98	74.56	141.57	D2516-6VOC-AR-WD
20	1.288 (32.72)	MSH20ECT-ND	1.01	76.85	145.93	D2520-6VOC-AR-WD
24	1.488 (37.80)	MSH24ECT-ND	1.07	81.44	154.64	D2524-6VOC-AR-WD
26	1.588 (40.34)	MSH26ECT-ND	1.07	81.44	154.64	D2526-6VOC-AR-WD
30	1.788 (45.42)	MSH30ECT-ND	1.22	92.91	176.42	D2530-6VOC-AR-WD
34	1.988 (50.50)	MSH34ECT-ND	1.27	96.35	182.95	D2534-6VOC-AR-WD
40	2.288 (58.12)	MSH40ECT-ND	1.34	102.09	193.84	D2540-6VOC-AR-WD
50	2.788 (70.82)	MSH50ECT-ND	1.65	125.03	237.40	D2550-6VOC-AR-WD

† For Tape and Reel part number, change CT-ND to TR-ND.

Polarized Boardmount Socket .100" x .100" (2.54mm x 2.54mm) - 8500 Series



FEATURES: • Centerbump polarization • Mates with low profile shrouded headers
PHYSICAL: • Insulation Material: Glass Filled Polyester (PBT) • Flammability: UL 94V-0 • Color: Gray • Contact Material: Copper Alloy • Plating - Underplating and U-slot: 2µm (79µ") Nickel • Wiping Area: 0.3µm (12µ") Gold • Solder Tails: Gold Flash • Marking: 3M logo, Part Identification Number and Orientation Triangle
ELECTRICAL: • Current Rating: 1A • Insulation Resistance: >1 x 10⁹Ω @ 500VDC
ENVIRONMENTAL: • Temperature Rating: -55°C - 105°C