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Jameco Part Number 803559



PRODUCT SPECIFICATION

2MM DUAL ROW OR SINGLE ROW (SMT/ VERTICAL/ RIGHT ANGLE) HEADER

1.0 SCOPE

This specification covers the performance requirements for 2mm Dual Row or Single Row Header (SMT/ Vertical/ Right Angle)

2.0 PRODUCT DESCRIPTION

2.1 Product covered by this specification is for series number 87752, 87753, 87754 87755, 87756, 87757, 87758, 87759, 87760, 87761, 87762, 87763, 87830 and 87239.

2.2 For dimensions, materials & plating, refer to the appropriate product drawings.

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

The following documents are part of this specification to the extent specified herewith. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence.

In the event of conflict between the requirements of this specification and reference documents, this specification shall take the precedence.

MIL-STD-202 Test Methods for Electrical and Electronic Component Parts.

MIL-STD-1344 Test methods of Electrical Connector

4.0 RATINGS

4.1 Voltage : 125V

4.2 Current : 2.00 Amp

4.3 Operating Temperature : -55°C to + 105°C Current

TENTATIVE RELEASE : THIS SPECIFICATION IS BASED ON DESIGN OBJECTIVES AND IS STRICTLY TENTATIVE. PRELIMINARY DATA MAY EXIST, BUT THIS SPECIFICATION IS SUBJECT TO CHANGE BASED ON THE RESULTS OF ADDITIONAL TESTING AND EVALUATION

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.	
B1	EC No: S2004-0868 DATE: 2004/07/20	2MM DUAL ROW OR SINGLE ROW (SMT/ VERTICAL/ RIGHT ANGLE) HEADER	1 of 3	
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
PS-87761-100		AI TING	KCLING	SKTOH



PRODUCT SPECIFICATION

5.0 PERFORMANCE

5.1 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Capacitance	Measure between adjacent terminals	1.2 pf max
2	Insulation Resistance	Test between adjacent contact at 500 V DC for 1 minute, per (MIL-STD-1344 MTD 3001.1)	1000 Megaohms minimum
3	Dielectric Strength	Test between adjacent contact at 500VAC rms and 1 minute hold time.	No breakdown

5.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
4	Pin Retention Force in Housing	Push pin axially from housing at a rate of 12.7mm/min (0.50 inch/min)	0.85 Kgf min

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DOCUMENT NUMBER: PS-87761-100	CREATED / REVISED BY: AI TING	CHECKED BY: KCLING	APPROVED BY: SKTOH
TEMPLATE FILENAME: PRODUCT_SPEC{SIZE_A4}(V.1).DOC			



PRODUCT SPECIFICATION

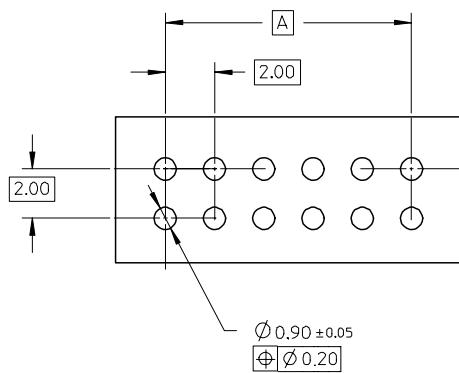
5.3 ENVIRONMENTAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
5	Temperature Rise	Apply 2 amps DC to the header and measure contact temperature rise for 48 hours	30°C maximum temperature rise above ambient.
6	Solderability	Solder Time: 5 ± 0.5 sec. Solder Temperature: 245 ± 5 °C	Soldertail should have 95% continuous new solder coating coverage (Apply to non-kinked Soldertail only)
7	Resistance to Soldering Heat (Wave Soldering) For Series a)87760, b)87758, 87830, 87761 c) Other series	Sample mounted on PCB and subject to wave soldering, a)Temperature : 260 ± 5 °C for 12 ± 2 Sec b)Temperature : 245 ± 5 °C for 3Sec c) Temperature : 245 ± 5 °C for 5Sec	Appearance : No Damage
8	Resistance to Solder Heat (Reflow) For Series 87759, 87762	Sample mounted on PCB and subject to reflow, Temperature : 245 ± 5 °C for 10 ± 2 Sec	Appearance : No Damage

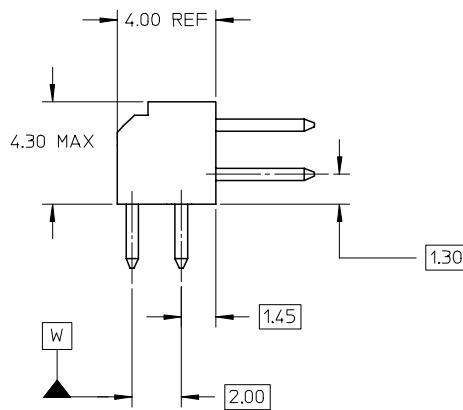
6.0 Packaging

Product shall be packaged and protected against damage during handling, transportation and storage.

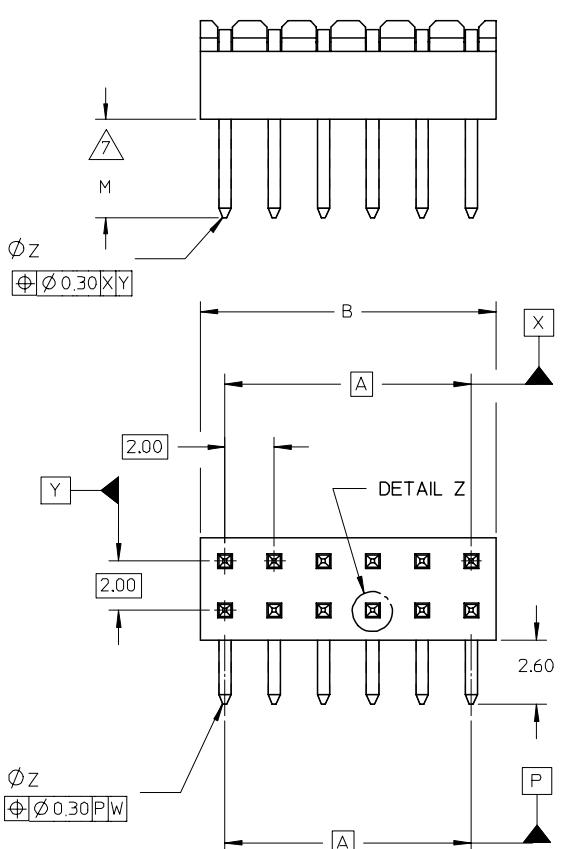
REVISION: B1	ECR/ECN INFORMATION: <u>EC No:</u> S2004-0868 <u>DATE:</u> 2004/07/20	TITLE: 2MM DUAL ROW OR SINGLE ROW (SMT/ VERTICAL/ RIGHT ANGLE) HEADER	SHEET No. 3 of 3
DOCUMENT NUMBER: PS-87761-100	CREATED / REVISED BY: AI TING	CHECKED BY: KCLING	APPROVED BY: SKTOH



RECOMMENDED PCB LAYOUT



DETAIL 7



NOTES:

1. MATERIALS

HSG: PCT, 30% GLASS FILLED,UL 94V-0,
COLOUR BLACK.

PN:

***6 - 0.38um MIN GOLD IN CONTACT AREA,
1.90um MIN TIN IN SOLDERTAIL AREA, BOTH OVER
1.27um MIN NICKEL OVERALL

***7 - 0.76um MIN GOLD IN CONTACT AREA,
1.90um MIN TIN IN SOLDERTAIL AREA, BOTH OVER
1.27um MIN NICKEL OVERALL

***8 - 2.54um MIN TIN OVER
1.27um MIN NICKEL OVERALL

3. 12 CKT USED FOR ILLUSTRATION ONLY
4. PART TO BE PACKED IN POCKET TRAY.
5. PRODUCT SPEC PS-87761-100 APPLIES.
6. RECOMMENDED PCB BOARD THK 1.60 ± 0.10 M

 MATING LENGTH: 1 / COMM

1 - 4.00MM
2 - 3.50MM
3 - 3.06MM
6 - 3.81MM

LEGEND

```

    graph LR
      CKT_SIZE["CKT SIZE  
(SEE SHT 2)"] --- PLATING_OPTION["PLATING OPTION  
(SEE NOTE 2)"]
      CKT_SIZE --- MATING_OPTION["MATING OPTION  
△"]
      PLATING_OPTION --- MATING_OPTION
  
```

PDR#S-001303-00-00 EC NO: S2006-1212 DRAWN: SKANG CH'K'D:MLONG APPR: SKTOH		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	④ THIRD ANGLE PROJECTION
		mm	INCH	DRAWN BY KSEE	DATE 2003/10/15	TITLE MGRID, 2MM DUAL ROW HDR. R/A		
		4 PLACES	± ---	CHECKED BY KCL ING	DATE 2003/12/02			
		3 PLACES	± ---	APPROVED BY SKTOH	DATE 2003/12/11	molex MOLEX INCORPORATED		
		2 PLACES	± 0.2	ANGULAR ± 3 °	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87760-109	SHEET NO. 1 OF 2	
		1 PLACE	± ---		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
A5		QUALITY SYMBOLS ▼=0 ▽=0		DESCRIPTION DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
REV								

10	9	8	7	6	5	4	3	2	1
PART NUMBER	VOID PIN LOCATION	CKT SIZE	A	B	M				
87760-04**	-	04	2.00	4.00					
87760-06**	-	06	4.00	6.00					
87760-08**	-	08	6.00	8.00					
87760-10**	-	10	8.00	10.00					
87760-12**	-	12	10.00	12.00					
87760-14**	-	14	12.00	14.00					
87760-16**	-	16	14.00	16.00					
87760-18**	-	18	16.00	18.00					
87760-20**	-	20	18.00	20.00					
87760-22**	-	22	20.00	22.00					
87760-24**	-	24	22.00	24.00					
87760-26**	-	26	24.00	26.00					
87760-28**	-	28	26.00	28.00					
87760-30**	-	30	28.00	30.00					
87760-32**	-	32	30.00	32.00					
87760-34**	-	34	32.00	34.00					
87760-36**	-	36	34.00	36.00					
87760-38**	-	38	36.00	38.00					
87760-40**	-	40	38.00	40.00					
87760-42**	-	42	40.00	42.00					
87760-44**	-	44	42.00	44.00					
87760-46**	-	46	44.00	46.00					
87760-48**	-	48	46.00	48.00					
87760-50**	-	50	48.00	50.00					
87760-2068	-	20	18.00	20.00	3.81				
87760-5116	5, 6 & 26	50	48.00	50.00	4.00				

FDR#S-001303-00-00 EC NO: S2006-1212 DRWNSKANG CH'KDM:LONG APPR:SK10H REV: A5		GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE NTS	DESIGN UNITS METRIC	④ □ THIRD ANGLE PROJECTION
			mm	INCH			
		▼=0	DRAWN BY KSEE	DATE 2003/10/15	TITLE MGRID, 2MM DUAL ROW HDR. R/A		
		▽=0	CHECKED BY KCLING	DATE 2003/12/02			
		2 PLACES ± 0.2	APPROVED BY SKTOH	DATE 2003/12/11	MOLEX MOLEX INCORPORATED		
		1 PLACE ± 0.0	ANGULAR $\pm 3^\circ$		MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87760-109	SHEET NO. 2 OF 2
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		