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Jameco Part Number 1978393



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 78014, 87752, 87753, 87754, 87755, 87756, 87757, 87758, 87759, 87760, 87761, 87762, 87763, 87830, 87239, 87858, and 87979

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

REVISION: B6	ECR/ECN INFORMATION: EC No: S2007-1103 DATE: 2007/06/15	TITLE: 2MM DUAL ROW OR SINGLE ROW (SMT/ VERTICAL/ RIGHT ANGLE) HEADER	SHEET No. 1 of 4
DOCUMENT NUMBER: PS-87761-100		CREATED / REVISED BY: AI TING/CWLAM 2007/06/15	CHECKED BY: KWLEE 2007/06/15
		APPROVED BY: KW LEE 2007/06/15	



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/CWLAM 2007/06/15	CHECKED BY: KWLEE 2007/06/15	APPROVED BY: KW LEE 2007/06/15



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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 : 260 ±5 °C for 10+2/-0Sec c) Temperature : 245 ±5 °C for 5Sec	Appearance : No Damage
8	Resistance to Solder Heat (Reflow) For SMT Series 87753, 87756, 87759, 87762, 87763, 87858, 87979, 87830	Pass Jack through IR machine for 3 cycles of the following reflow profile: Average Ramp Rate 3°C/sec max. Preheat Temp. (Min.) 150°C Preheat Temp. (Max.) 200°C Preheat Time 60 – 180 sec Ramp to Peak 3°C/sec max. Time over liquidus (217°C) 60 – 150 sec Peak Temperature 260 +0/-5°C Time within 5°C of peak 20 – 40 sec. Ramp – Cool Down 6°C/sec max. Time 25°C to Peak 8 mins max.	Appearance : No Damage

6.0 Packaging

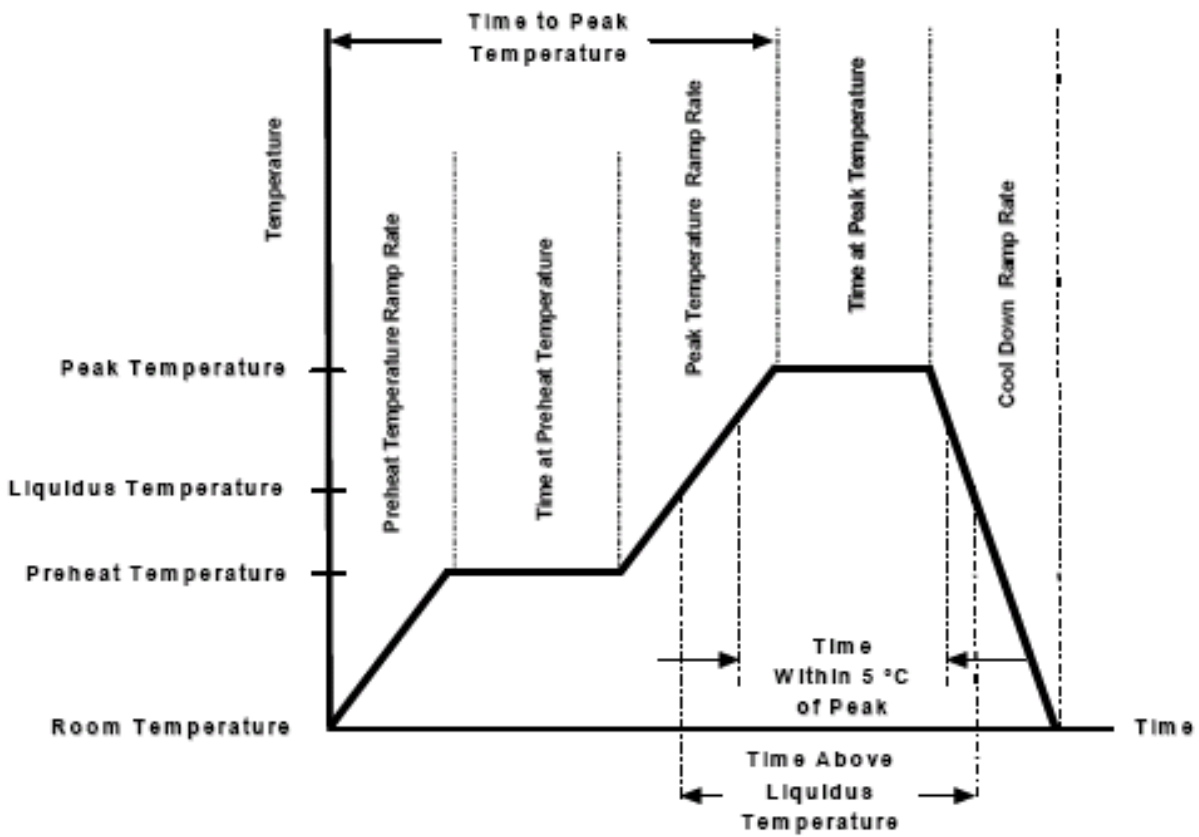
Product shall be packaged and protected against damage during handling, transportation and storage.

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DOCUMENT NUMBER: PS-87761-100	CREATED / REVISED BY: AI TING/CWLAM 2007/06/15	CHECKED BY: KWLEE 2007/06/15	APPROVED BY: KW LEE 2007/06/15

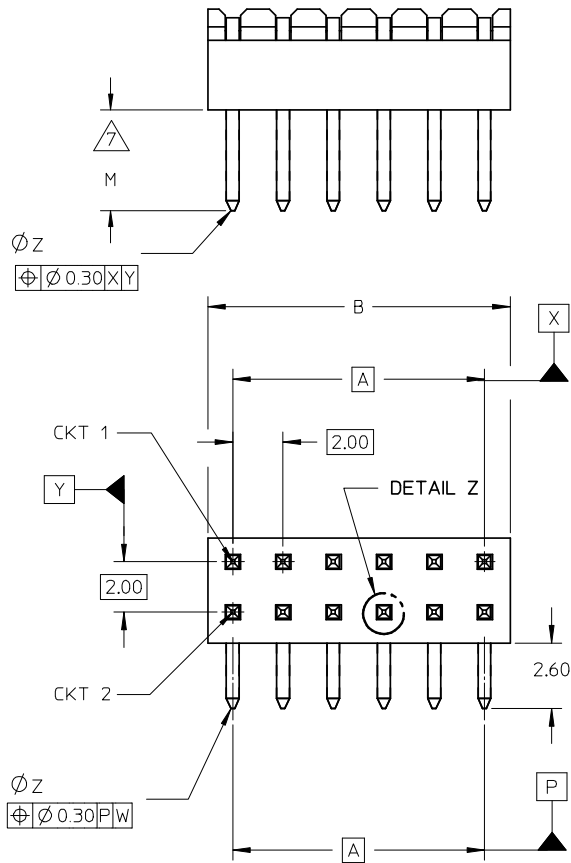
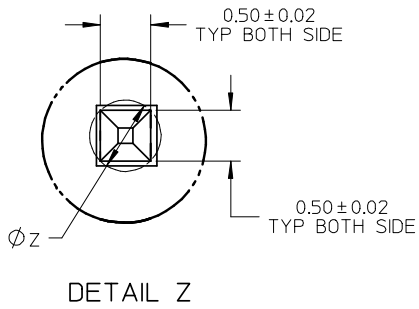
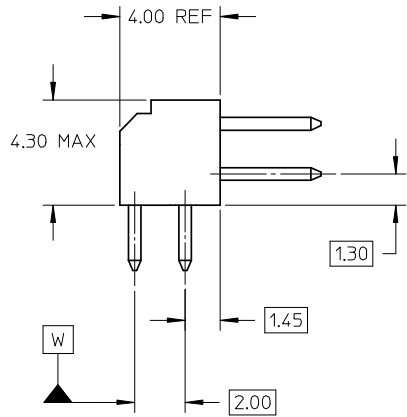
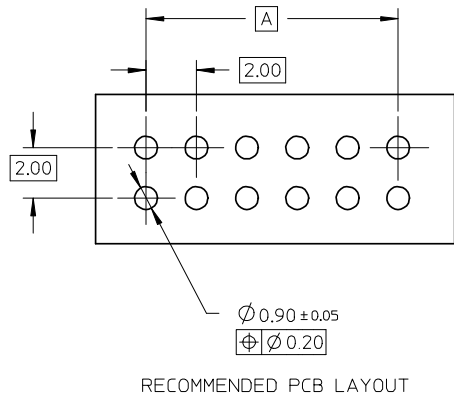


PRODUCT SPECIFICATION

7.0 SURFACE MOUNT REFLOW TEMPERATURE PROFILE



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NOTES:

1. MATERIAL:

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

PIN: 0.50MM SQ PHOSPHOR BRONZE 510

2. PLATING:

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

***7 - 0.76um MIN GOLD IN CONTACT AREA, 1.90um MIN TIN IN SOLDER TAIL 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

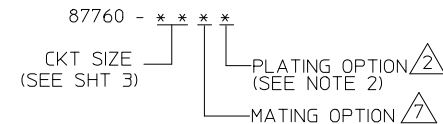
4. PART TO BE PACKED IN POCKET TRAY.

5. PRODUCT SPEC PS-87761-100 APPLIES.

6. RECOMMENDED PCB BOARD THK 1.60±0.10 MM.

7. MATING LENGTH: 1 - 4.00MM
2 - 3.50MM
3 - 3.06MM

LEGEND:



REVISED EC NO: S2008-0560 DRWN:SKANG CHKD:ATSEE APPR:MLONG 2008/02/28 2008/02/29 2008/02/29	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▼=0 ∇=0	mm	INCH	MM ONLY	NTS	METRIC	
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	DRAWN BY KSEE	DATE 2003/10/15	TITLE MGRID, 2MM DUAL ROW HDR. R/A	
		2 PLACES ± 0.2 ± ---	1 PLACE ± --- ± ---	CHECKED BY KCL ING	DATE 2003/12/02		
	ANGULAR ± 3 °	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY SKTOH	DATE 2003/12/11	MOLEX INCORPORATED	
		SEE TABLE		MATERIAL NO.	DOCUMENT NO.	SD-87760-109	
A10	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

	10	9	8	7	6	5	4	3	2	1
	PART NUMBER	VOID PIN LOCATION	CKT SIZE	A	B	M				
F	87760-04**	-	04	2.00	4.00	REFER TO NOTE 7.				
	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					
E	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					
D	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					
C	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					
B	87760-5116	5, 6 & 26	50	48.00	50.00					

REVISED EC NO: S2008-0560 DRWN:SKANG CHKD:ATSEE APPR:MLONG	2008/07/28 2008/07/29 2008/07/29	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
			mm	INCH	DRAWN BY	DATE	TITLE						
			4 PLACES	± ---	± ---	KSEE	2003/10/15	MGRID, 2MM DUAL ROW HDR. R/A					
			3 PLACES	± ---	± ---	CHECKED BY	DATE						
		2 PLACES	± 0.2	± ---	KCL ING	2003/12/02							
		1 PLACE	± ---	± ---	APPROVED BY	DATE							
		ANGULAR ± 3 °			SKTOH	2003/12/11	MOLEX INCORPORATED						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.	SEE TABLE			DOCUMENT NO.	SD-87760-109			
					SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
										SHEET NO.	2 OF 2		