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Jameco Part Number 1978385



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

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. 2 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

5.3 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

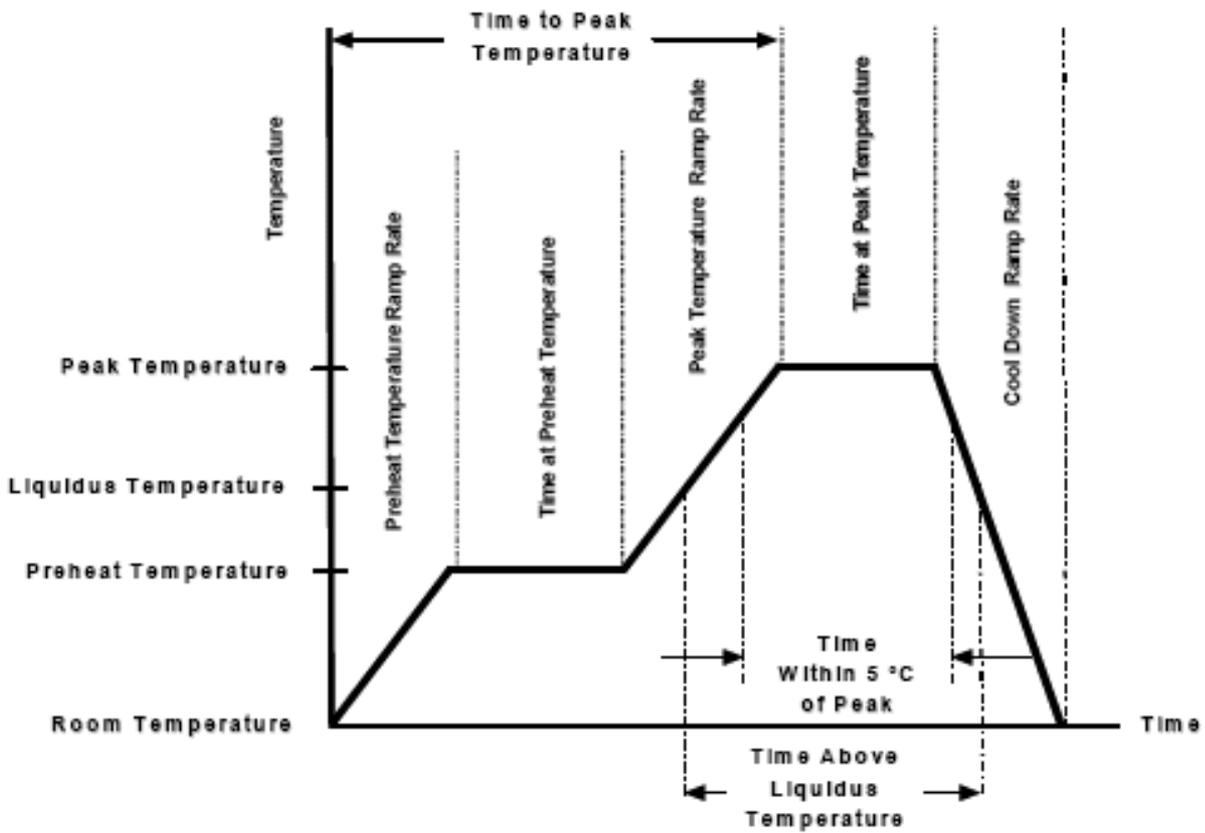
Product shall be packaged and protected against damage during handling, transportation and storage.

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. 3 of 4
DOCUMENT NUMBER: PS-87761-100		CREATED / REVISED BY: AI TING/CWLAM 2007/06/15	CHECKED BY: KWLEE 2007/06/15
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PRODUCT SPECIFICATION

7.0 SURFACE MOUNT REFLOW TEMPERATURE PROFILE



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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

NOTES:

1. MATERIAL:

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

PIN: 0.50MM SQ PHOSPHOR BRONZE 510

△ PLATING:

***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 MM.

△ MATING LENGTH: 1 - 4.00MM
2 - 3.50MM
3 - 3.06MM

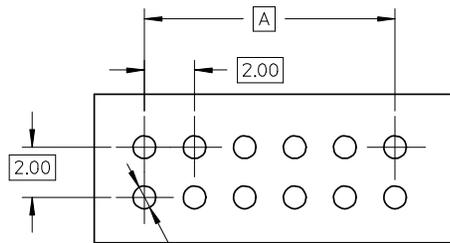
LEGEND:

87760 - * * * *

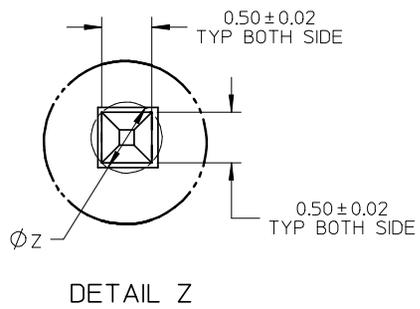
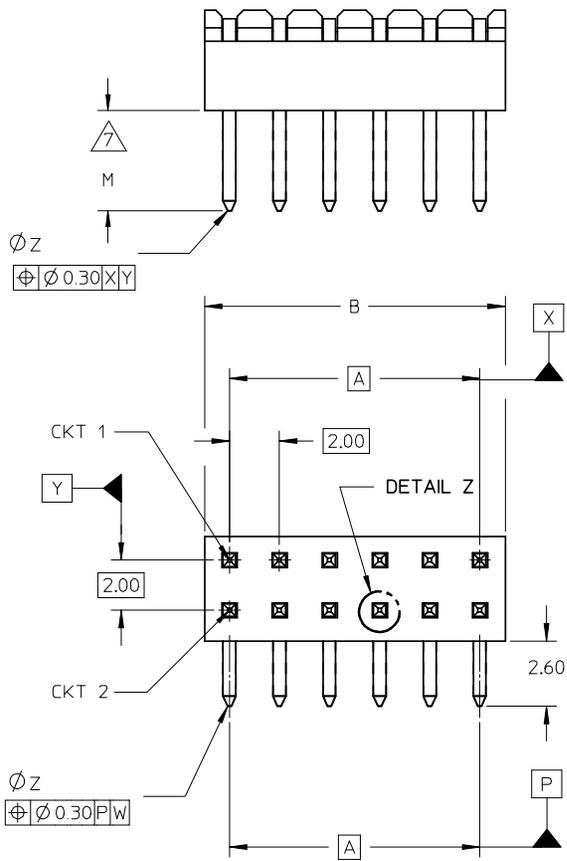
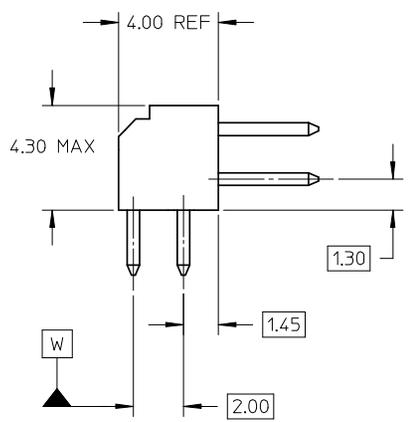
CKT SIZE (SEE SHT 3)

PLATING OPTION △2 (SEE NOTE 2)

MATING OPTION △7



RECOMMENDED PCB LAYOUT



DETAIL Z

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