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Jameco Part Number 803516



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

### 5.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
4	<b>Pin Retention Force in Housing</b>	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: <b>PS-87761-100</b>	CREATED / REVISED BY: <b>AI TING</b>	CHECKED BY: <b>KCLING</b>	APPROVED BY: <b>SKTOH</b>
TEMPLATE FILENAME: PRODUCT_SPEC(SIZE_A4)(V.1).DOC			



# PRODUCT SPECIFICATION

## 5.3 ENVIRONMENTAL REQUIREMENTS

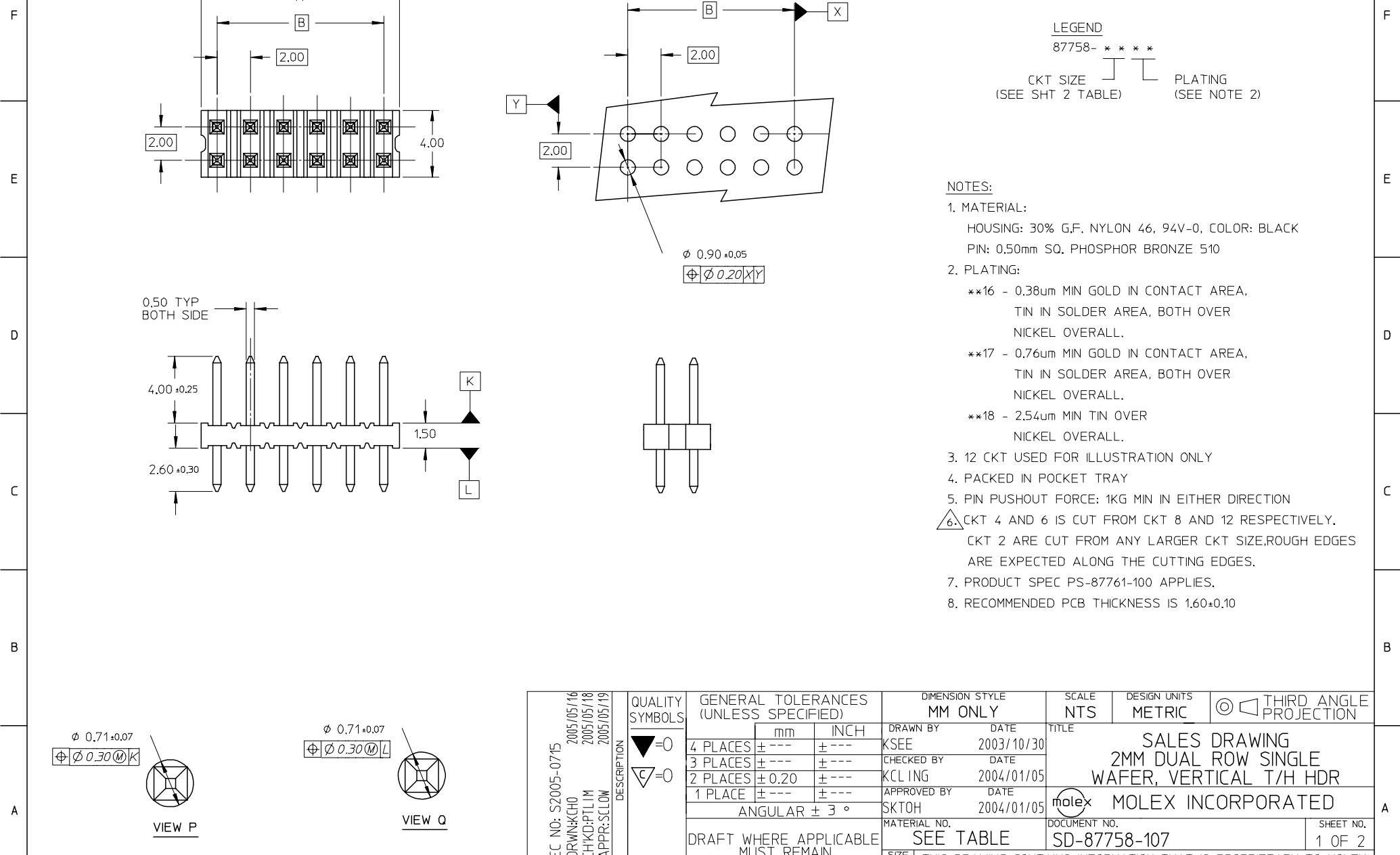
ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
5	<b>Temperature Rise</b>	Apply 2 amps DC to the header and measure contact temperature rise for 48 hours	30°C maximum temperature rise above ambient.
6	<b>Solderability</b>	Solder Time: $5 \pm 0.5$ sec. Solder Temperature: $245 \pm 5$ °C	Soldertail should have 95% continuous new solder coating coverage (Apply to non-kinked Soldertail only)
7	<b>Resistance to Soldering Heat (Wave Soldering)</b> <b>For Series</b> <b>a)87760,</b> <b>b)87758, 87830,</b> <b>87761</b> <b>c) Other series</b>	Sample mounted on PCB and subject to wave soldering,  a)Temperature : $260 \pm 5$ °C for $12 \pm 2$ Sec  b)Temperature : $245 \pm 5$ °C for 3Sec  c) Temperature : $245 \pm 5$ °C for 5Sec	Appearance : No Damage
8	<b>Resistance to Solder Heat (Reflow)</b> <b>For Series</b> <b>87759, 87762</b>	Sample mounted on PCB and subject to reflow, Temperature : $245 \pm 5$ °C for $10 \pm 2$ Sec	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: <b>PS-87761-100</b>	CREATED / REVISED BY: <b>AI TING</b>	CHECKED BY: <b>KCLING</b>	APPROVED BY: <b>SKTOH</b>

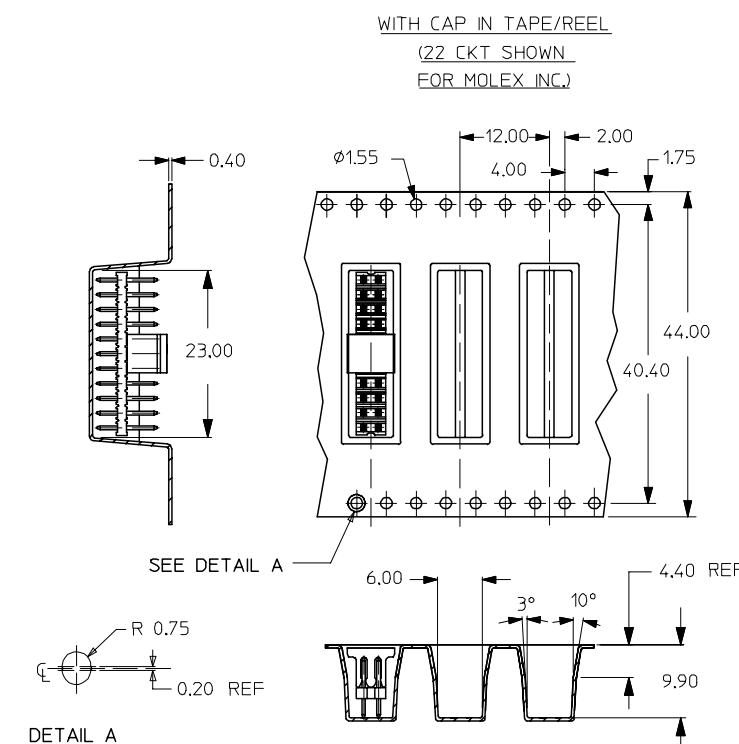
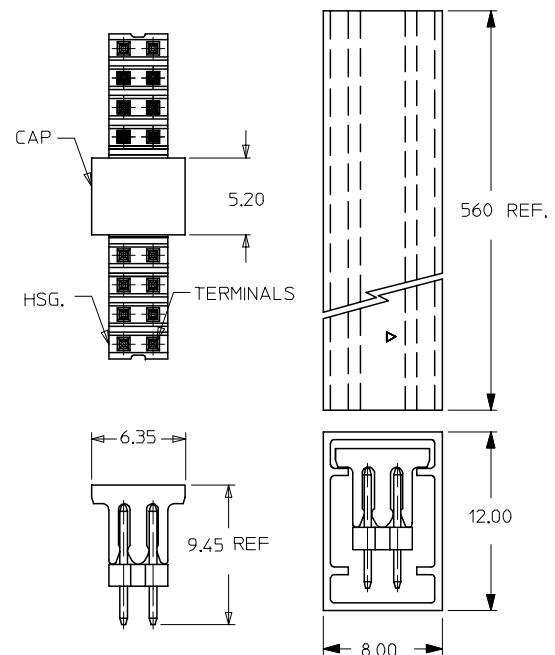
10 9 8 7 6 5 4 3 2 1



ART NUMBER	CKT SIZE	A	B
7758-02** 6	2	NA	NA
7758-04** 6	4	NA	2.00
7758-06** 6	6	NA	4.00
7758-08**	8	7.90	6.00
7758-10**	10	9.90	8.00
7758-12**	12	11.90	10.00
7758-14**	14	13.90	12.00
7758-16**	16	15.90	14.00
7758-18**	18	17.90	16.00
758-20**	20	19.90	18.00
758-22**	22	21.90	20.00
758-24**	24	23.90	22.00
758-26**	26	25.90	24.00
758-28**	28	27.90	26.00
758-30**	30	29.90	28.00
758-32**	32	31.90	30.00
758-34**	34	33.90	32.00
758-36**	36	35.90	34.00
758-38**	38	37.90	36.00
758-40**	40	39.90	38.00
758-42**	42	41.90	40.00
758-44**	44	43.90	42.00
758-46**	46	45.90	44.00
758-48**	48	47.90	46.00
758-50**	50	49.90	48.00

CKT SIZE	PART NO. WITH CAP IN TUBE	PART NO. WITH CAP IN TAPE/REEL	PLATING TYPE
8	87758-0814	87758-0815	**16
22	87758-5126	87758-5111	MOLEX IN

WITH CAP IN TUBE  
(22 CKT SHOWN  
FOR MOLEX INC.)



EC NO: S2005-0715 DRW/KH CHKD/PTLM APPR:SC/LOW	2005/05/16 2005/05/18 2005/05/19	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 2003/10/30	TITLE SALES DRAWING 2MM DUAL ROW SINGLE WAFER, VERTICAL T/H HDR		
DESCRIPTION		4 PLACES $\pm$ ---	$\pm$ ---	CHECKED BY KCL ING	DATE 2004/01/05	molex MOLEX INCORPORATED		
		3 PLACES $\pm$ ---	$\pm$ ---	APPROVED BY SKTOH	DATE 2004/01/05			
		2 PLACES $\pm$ 0.20	$\pm$ ---	MATERIAL NO. SEE TABLE				
		1 PLACE $\pm$ ---	$\pm$ ---					
		ANGULAR $\pm$ 3 °						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						
A2	REV	SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			DOCUMENT NO. SD-87758-107			SHEET NO. 2 OF 2		