



PRODUCT SPECIFICATION

MILLIGRID 2MM DUAL ROW SHROUDED HEADER WITH LOCKING WINDOWS

1.0 SCOPE

This Product Specification covers the 2mm (0.08inch) centerline (pitch) printed circuit board (PCB) connector series with Tin plating.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME

Right Angle Shrouded Header with locking windows
Vertical Shrouded Header with locking windows

SERIES NUMBER(S)

78046
78246

The Milli-Grid 2mm Dual Row Shrouded Headers with locking windows mates with Milli-Grid 2mm Grid Wire to Board Connector with locking ramps, 78045 series and Crimp Terminal, 50394 series.

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

See the appropriate Sales Drawings for information on dimensions, materials, platings, and markings.

2.3 SAFETY AGENCY APPROVALS

UL File Number : TBA
CSA File Number : TBA

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

Reference Product Specifications

PS-78045-001 Milli-Grid 2mm Grid Wire to Board Connector with locking ramps

TENTATIVE RELEASE:

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

REVISION: 2	ECR/ECN INFORMATION: EC No: S2008-0755 DATE: 2008/02/22	TITLE: MILLIGRID 2MM DUAL ROW SHROUDED HEADERS WITH LOCKING WINDOWS	SHEET No. 1 of 3
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4.0 RATINGS

4.1 VOLTAGE

125 Volts(DC)

4.2 CURRENT

2.00 Amp MAXIMUM

4.3 TEMPERATURE

Operating : -55°C to +105°C

Non-Operating: -55°C to +105°C

5.0 PERFORMANCE

5.1 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Insulation Resistance	Apply 500 VDC for 1 minute per MIL-STD-1344A, METHOD 3003.1	1000 Megaohms Minimum
2	Dielectric Strength	1000 Vrms for 1 minute between adjacent terminals.	No breakdown

5.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
3	Pin/ Terminal Retention Force (in Housing)	Apply an axial load on the terminal in the housing to dislodge the terminals from the connector at a rate of 0.50 inch per minute	Retention Force: 850 g Min per pin. (Before heat soldering)

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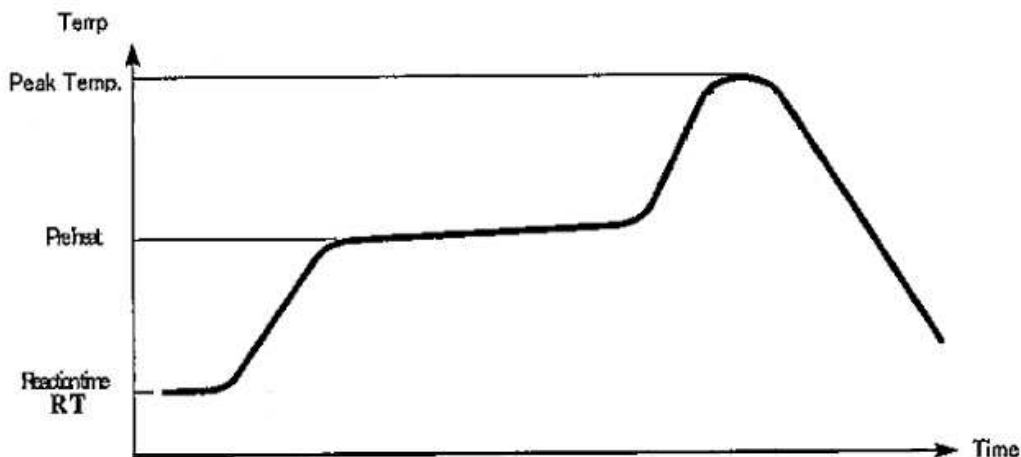
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5.3 ENVIROMENT REQUIREMENTS

4.	Solderability	Solder Time: 5 +/-0.5 secs. Solder Temperature: 260+/- 5°C	95% of the immersed area must show no voids, pin holes.
5.	Resistance to Soldering Heat (Through Hole)	Solder tail to be dipped in flux as per MIL-STD-202F method 210 condition B. Solder Temperature: 260 +/- 5°C Solder Time: 10 +/- 1 secs	No damage in appearance of the connector
	Resistance to IR reflow heat (SMT)	Pass product 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.	No damage in appearance of the connector

6.

Reflow Temperature Profile



6.0 Packaging

Product shall be packed in either Tube or Tape & Reel and protected against damage during handling, transportation and storage.

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