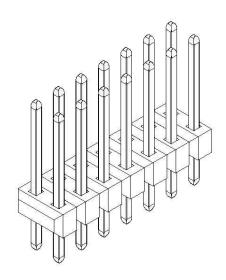
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PRODUCT SPECIFICATION



SERIES 70280 / 70287

C-GRID® VERTICAL THROUGH HOLE .100" GRID DUAL ROW HEADER WITH BREAK OFF OPTION **SERIES 70280 / 70287**

- 1.0 SCOPE
- 2.0 PRODUCT DESCRIPTION
 - 2.1 PRODUCT NAME AND SERIES NUMBER
 - 2.2 **DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS**
 - 2.3 **SAFETY AGENCY APPROVALS**
- 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS
- 4.0 **RATINGS**
 - 4.1 VOLTAGE
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- 5.0 **PERFORMANCE**
 - 5.1 **ELECTRICAL REQUIREMENTS**
 - 5.2 **MECHANICAL REQUIREMENTS**
- 6.0 **PACKAGING**

REVISION:	ECR/ECN INFORMATION:	100" GRID VERTICAL			SHEET No.	
B4	EC No: UCP2008-1376	MOUNT DUAL ROW		1 of 3		
	DATE: 7/1/2009	BREAKAWAY HEADER			1013	
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:		
PS-70280		MKIPPER	JBELL	FSMITH		
TEMPLATE FILENAME: PRODUCT. SPECISIZE. AI(V, 1). DOC						

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PRODUCT SPECIFICATION

1.0 SCOPE:

This specification covers the C-Grid® vertical dual row header with break-off option. The wafer (header body) is designed to be easily modified to a smaller circuit size in the field if required. The mating pins are .025in (0.64mm) square and have .100in (2.54mm) grid spacing.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER

SERIES 70280: Vertical mount through hole dual row header with break off option.

SERIES 70287: Vertical mount through hole dual row header with retention pins and break off option.

2.2 DIMENSIONS, PLATINGS, AND MARKINGS

The products are available in circuit sizes of 4 through 100 circuits and are end to end stackable. Product can also be ordered with selective voids. The wafer is produced from glass filled Liquid Crystal Polymer, (LCP) having a UL 94V-0 flammability rating. Mating pin lengths are .240in (6.0mm), and .320in (8.1mm) with gold or tin plating. For further details, please refer to the sales documents in section 3.0.

2.3 RECOGNIZED AGENCY APPROVALS:

2.3.1 Underwriters' Laboratories: E29179

2.3.2 Canadian Standards Association: LR19980

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS:

3.1 MOLEX DOCUMENTS

PK-70873-0276

SDA-70280-0001-4000 SALES DRAWING. VERTICAL MOUNT THROUGH HOLE DUAL ROW HEADER WITH BREAK OFF OPTION SALES DRAWING, VERTICAL MOUNT THROUGH HOLE SDA-70280-5001-9999 DUAL ROW HEADER WITH BREAK OFF OPTION AND SELECTIVE VOIDS SALES DRAWING, VERTICAL MOUNT THROUGH HOLE SD-70280-001 DUAL ROW HEADER WITH BREAK OFF OPTION SALES DRAWING, VERTICAL MOUNT THROUGH HOLE SD-70280-002 DUAL ROW HEADER WITH BREAK OFF OPTION. **CUSTOM HEADERS** SALES DRAWING, VERTICAL MOUNT THROUGH HOLE SDA-70280-003 DUAL ROW HEADER WITH BREAK OFF OPTION SALES DRAWING, VERTICAL MOUNT THROUGH HOLE SD-70287-003 DUAL ROW HEADER WITH RETENTION PINS AND **BREAK OFF OPTION** PK-70873-0090 PACKAGING SPECIFICATION VERTICAL MOUNT THROUGH DUAL ROW HEADER WITH BREAK OFF

PACKAGING SPECIFICATION VERTICAL MOUNT

THROUGH DUAL ROW HEADER WITH BREAK OFF

REVISION:	ECR/ECN INFORMATION:	.100" GRID VERTICAL		SHEET No.	
B4	EC No: UCP2008-1376	MOUNT DUAL ROW		2 of 3	
	DATE: 7/1/2009	BREAKAWAY HEADER			
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:	
PS-70280		MKIPPER	JBELL	FSMITH	

OPTION

OPTION

TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC

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PRODUCT SPECIFICATION

PK-70873-0277 PACKAGING SPECIFICATION VERTICAL MOUNT

THROUGH DUAL ROW HEADER WITH BREAK OFF

OPTION

PK-70873-0353 PACKAGING SPECIFICATION VERTICAL MOUNT

THROUGH DUAL ROW HEADER WITH BREAK OFF

OPTION

PS-45499-002 COSMETIC SPECIFICATION

OTHER DOCUMENTS 3.2

MIL STD 202F

4.0 **RATINGS**

VOLTAGE: 250 Volts D.C. 4.1

4.2 **CURRENT:** 3.0 Amp D.C. maximum.

4.3 **TEMPERATURE:**

4.3.1 OPERATING TEMPERATURE (ambient +30° temp rise): -40 °C to +120 °C NON-OPERATING TEMPERATURE: -30 °C to +60 °C

5.0 **PERFORMANCE**

DEVICION. FOR/ECN INFORMATION. TITLE.

5.1 **ELECTRICAL REQUIREMENTS**

- 5.1.1 INSULATION RESISTANCE: Greater than 1,000M Ω at sea level.
- 5.1.2 DIELECTRIC WITHSTANDING VOLTAGE: Greater than 600 Volts at sea level.
- 5.1.3 TEMPERATURE RISE: 30°C maximum at rated current

5.2 **MECHANICAL REQUIREMENTS:**

- 5.2.1 Header pin retention (push out force): 3 lbs minimum before soldering.
- Durability: Mate connectors up to 25 cycles at a maximum rate of 10 cycles/minute prior to environmental testing. 10 milliohms maximum (change from initial).

5.3 **ENVIRONMENTAL REQUIREMENTS:**

5.3.1 THERMAL SHOCK

10 Cycles from -40°C to 105°C, ½ hour at each temperature setting.

5.3.2 CHEMICAL RESISTANCE

Per Mil. Std. 202F. Method 215A.

5.3.3 SOLDERABILITY

Per SMES-152. Solder coverage: 95% minimum.

5.3.4 PROCESSING HEAT RESISTANCE

Wave Solder Process

Dip connector pin tails in solder; Solder Temperature: 260°C MAX Solder Duration: 5 ±0.5 seconds

6.0 **PACKAGING** Refer to section 3.0 for packaging documents

B4	EC No: UCP2008-1376 DATE: 7/1/2009	MO	" GRID VERTICAL UNT DUAL ROW AKAWAY HEADEI		3 of 3	
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:		
PS-70280		MKIPPER	JBELL	FSMITH		
TEMPLATE FILENAME: PRODUCT SPECISIZE AIV 1) DOC						

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