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Part Number:

0878580450

Status:

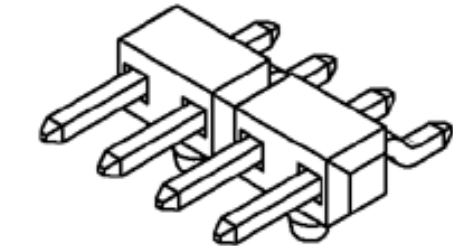
Active

Overview:

milligrd

Description:

2.00mm (.079") Pitch Milli-Grid™ Breakaway Header, Surface Mount, Single Row, Vertical, without Peg, with Kapton Tape, Tape on Reel Packaging, Mating Pin Length 3.20mm (.126"), 4 Circuits, Lead-free



Series

image - Reference only

Documents:

- [Drawing \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)
- [Product Specification PS-87761-100 \(PDF\)](#)

General

Product Family	PCB Headers
Series	87858
Application	Wire-to-Board
Overview	milligrd
Product Name	Milli-Grid™

Physical

Breakaway	Yes
Circuits (Loaded)	4
Circuits (maximum)	4
Color - Resin	Black
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	None
Mated Height (in)	0.125 In
Mated Height (mm)	3.20 mm
Material - Metal	Copper Alloy
Material - Plating Mating	Tin
Material - Plating Termination	Nickel
Material - Resin	High Temperature Thermoplastic
Number of Rows	1
Orientation	Parallel
PC Tail Length (in)	0.110 In
PC Tail Length (mm)	2.80 mm
PCB Locator	Yes
PCB Retention	None
PCB Thickness Recommended (in)	0.063 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.079 In
Pitch - Mating Interface (mm)	2.00 mm
Pitch - Term. Interface (in)	0.079 In
Pitch - Term. Interface (mm)	2.00 mm
Plating min: Mating (µin)	100
Plating min: Mating (µm)	2.54
Polarized to Mating Part	No
Polarized to PCB	Yes
Shrouded	No
Stackable	No
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Surface Mount

EU RoHS

ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status

China RoHS



Need more information on product
environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any
non-product compliance questions.

Search Parts in this Series
87858Series

Mates With
2.00 mm (.079") single row receptacles

Electrical

Current - Maximum per Contact	2A
Voltage - Maximum	125V

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

Material Info

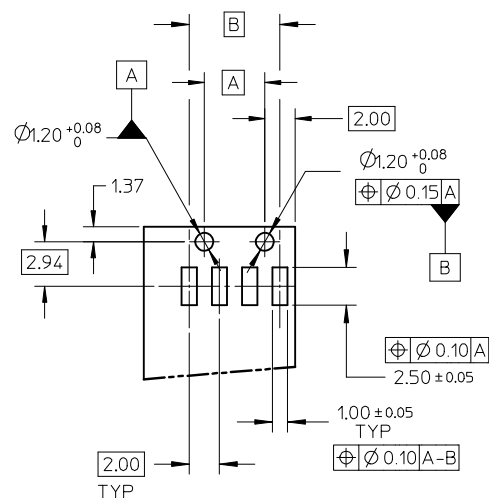
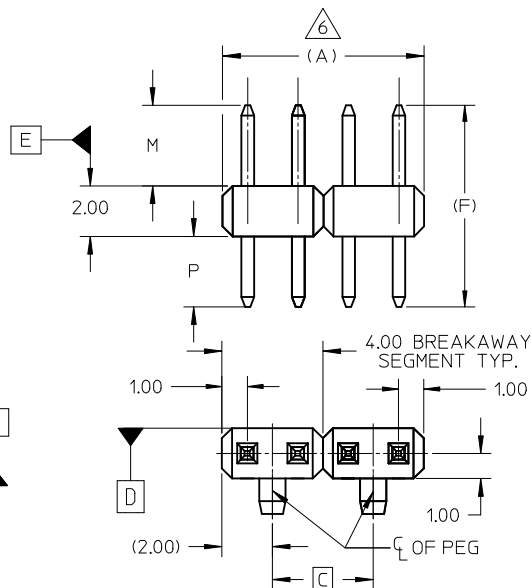
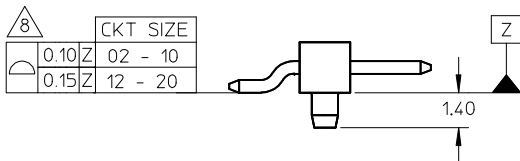
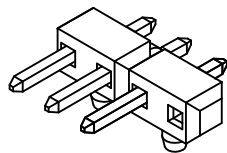
Reference - Drawing Numbers

Product Specification	PS-87761-100
Sales Drawing	SD-87858-001

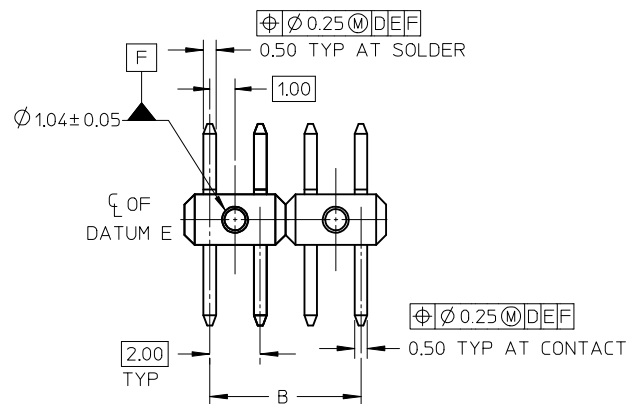
This document was generated on 05/25/2010

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10 9 8 7 6 5 4 3 2 1



RECOMMENDED PCB LAYOUT



NOTES:

1. MATERIAL:

HSG: LCP, GLASS-FILLED, UL94V-0, COLOR:BLACK
PIN: 0.50mm SQ, COPPER ALLOY

2. PLATING:

- (1) 2.540µm TIN OVERALL PLATING OVER NICKEL OVERALL
- (2) 5.080µm TIN OVERALL PLATING OVER NICKEL OVERALL

3. PACKAGING TYPE: SEE TABLE

4. PACKAGING SPECIFICATION:

TRAY: PK-89990-487
TAPE & REEL: PK-89990-484

5. PRODUCT SPEC PS-87761-100 APPLIES

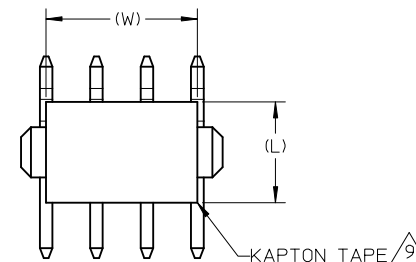
6. IRREGULAR CIRCUIT CUTOFF WITHIN BREAKAWAY SECTION IS PERMISSIBLE. MEASUREMENT AT BOTH ENDS, FROM CUT END TO THE CENTRELINE OF THE HOUSING CORE HOLE OF THE FIRST PIN REMAINS AT 1.00±0.20MM. CUTTING AND CHIPPING OF THE MAIN BODY IS NOT ACCEPTABLE.

7. THE ABOVE CKT 4 IS FOR ILLUSTRATION PURPOSE ONLY

8. COPLANARITY IS TO BE MEASURED BY RESTING THE SOLDER TAIL ON A GAUGE SURFACE

9. KAPTON TAPE LOCATION IS CENTERED ALONG THE PART AS SHOWN.

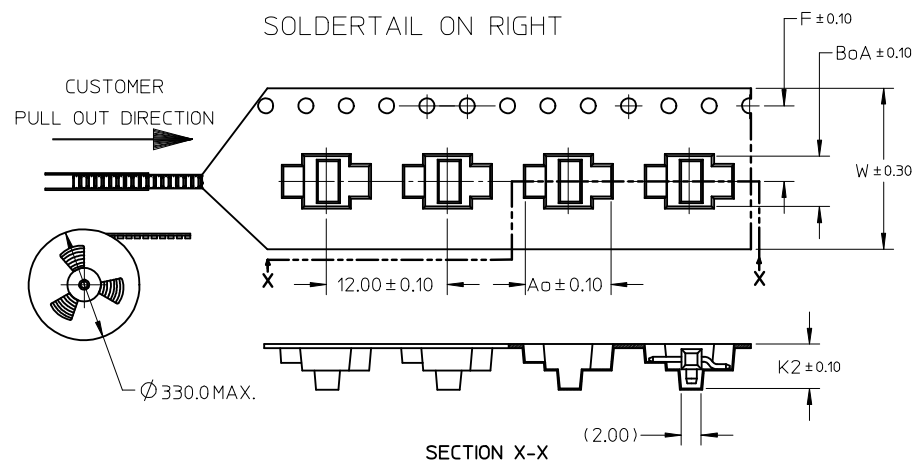
10. RECOMMENDED PCB BOARD THICKNESS: 1.60±0.10mm



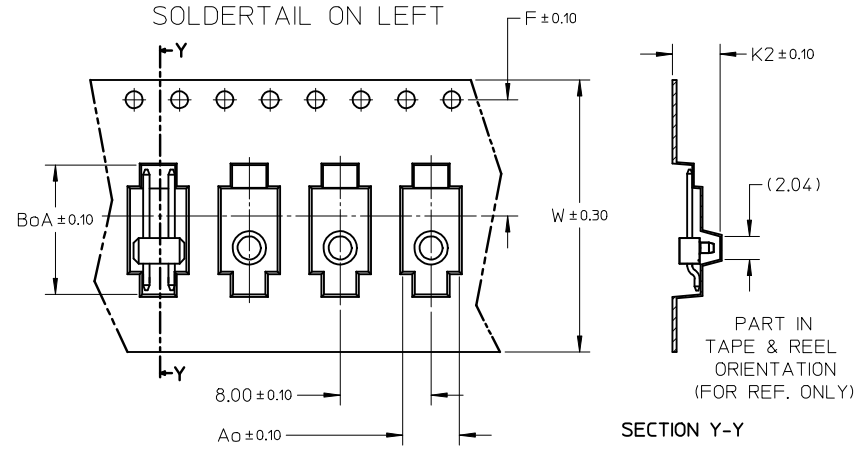
ADD DIMENSIONS		EC NO: S2009-0295 2009/02/09 DRW:ATSEE 2009/02/10 CHKD:SKANG 2009/02/11 APPR:MLONG		DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
								MM ONLY		NTS	METRIC		
C3		REV			▼=0 ▽=0	mm INCH		DRAWN BY DATE		TITLE CUSTOM HEADER 2MM SINGLE ROW HDR IN SMT WITH PEG, BREAKAWAY MOLEX MOLEX INCORPORATED			
						4 PLACES ± --- ± ---		KSEE 2003/11/14					
						3 PLACES ± --- ± ---		CHECKED BY DATE					
						2 PLACES ± 0.2 ± ---		KCLING 2003/12/15					
						1 PLACE ± --- ± ---		APPROVED BY DATE					
				ANGULAR ± 3 °		PTLIM 2003/12/15		DOCUMENT NO.		SHEET NO.			
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87858-001		1 OF 3	
								SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

PACKAGING TYPE	CKT	DIMENSION					PACKABLE QTY
		BoA	Ao	K2	F	W	
T1	2	5.00	8.50	4.40	7.50	16.00	1200
	4	9.00	8.50	4.40	11.50	16.00	1200
T2	2	11.40	5.00	4.20	11.50	24.00	2000

TYPE T1 PACKAGING
SOLDERTAIL ON RIGHT

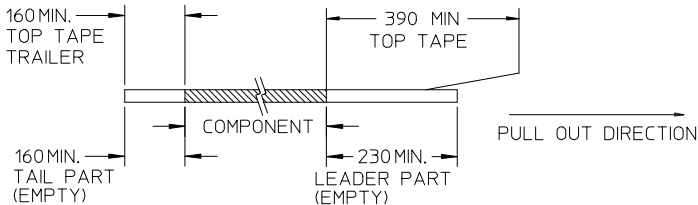


TYPE T2 PACKAGING
SOLDERTAIL ON LEFT

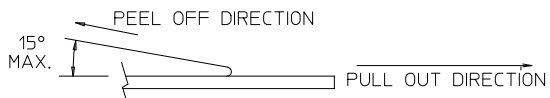


NOTES:

1. LEADER AND TRAILER TAPE



2. PEELING OFF FORCE OF THE TOP TAPE: 20-80gf.
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE)



- MATERIAL: BLACK P.S CONDUCTIVE, THICKNESS 0.40±0.10.
- PACKAGING STANDARD IS AS PER EIA-481.
- THE TAPE IS TREATED FOR ANTI-STATIC.

ADD DIMENSIONS EC NO: S2009-0295 DRWN:ATSEE CHKD:SKANG APPR:MLONG		DESCRIPTION	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 2003/11/14	TITLE CUSTOM HEADER 2MM SINGLE ROW HDR IN SMT WITH PEG, BREAKAWAY			
C3		REV		4 PLACES	± ---	± ---	CHECKED BY	DATE	MOLEX MOLEX INCORPORATED			
				3 PLACES	± ---	± ---	KCLING	2003/12/15				
				2 PLACES	± 0.2	± ---	APPROVED BY	DATE	SD-87858-001		SHEET NO. 3 OF 3	
				1 PLACE	± ---	± ---	PTLIM	2003/12/15				
				ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.				
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE						
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				