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Part Number: [0010455121](#)
Status: **Active**
Overview: [kk](#)
Description: 5.08mm (.200") Pitch KK® Header, Vertical, with Polarizing Backwall, 12 Circuits, Gold (Au) Plating

Documents:
[3D Model](#) [Product Specification PS-99020-0087 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

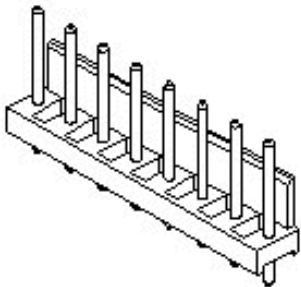
UL E29179

General

Product Family PCB Headers
Series [2599](#)
Application Wire-to-Board
Overview [kk](#)
Product Name KK®

Physical

Breakaway No
Circuits (Loaded) 12
Circuits (maximum) 12
Color - Resin Natural
Durability (mating cycles max) 50
First Mate / Last Break No
Flammability 94V-2
Glow-Wire Compliant No
Guide to Mating Part No
Keying to Mating Part None
Lock to Mating Part None
Material - Metal Brass
Material - Plating Mating Gold
Material - Plating Termination Gold
Material - Resin Nylon
Number of Rows 1
Orientation Vertical
PC Tail Length (in) 0.175 In
PC Tail Length (mm) 4.45 mm
PCB Retention None
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.60 mm
Packaging Type Bag
Pitch - Mating Interface (in) 0.200 In
Pitch - Mating Interface (mm) 5.08 mm
Plating min: Mating (µin) 20
Plating min: Mating (µm) 0.5
Plating min: Termination (µin) 20
Plating min: Termination (µm) 0.5
Polarized to PCB No
Shrouded Partial
Stackable Yes
Surface Mount Compatible (SMC) No
Temperature Range - Operating 0°C to +75°C
Termination Interface: Style Through Hole



Series

image - Reference only

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
[2599Series](#)

Mates With
KK® Crimp Terminal Housing [3001](#) , [5058](#)

Electrical

Current - Maximum per Contact	7A
Voltage - Maximum	250V

Material Info

Old Part Number	2599M12AG
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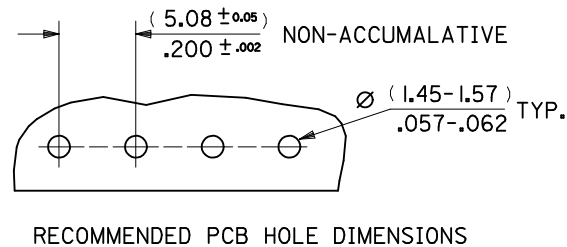
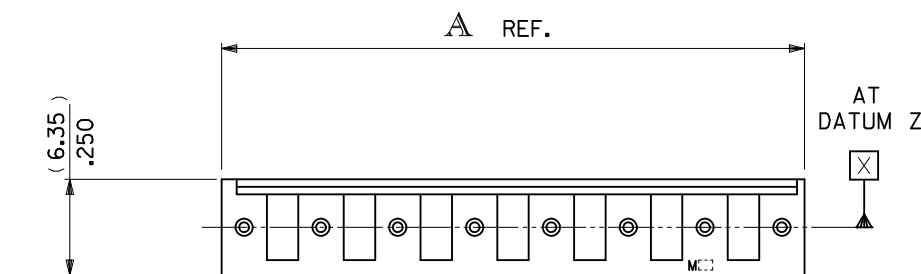
Reference - Drawing Numbers

Product Specification	PS-99020-0087
Sales Drawing	SDAE-2599M-N*

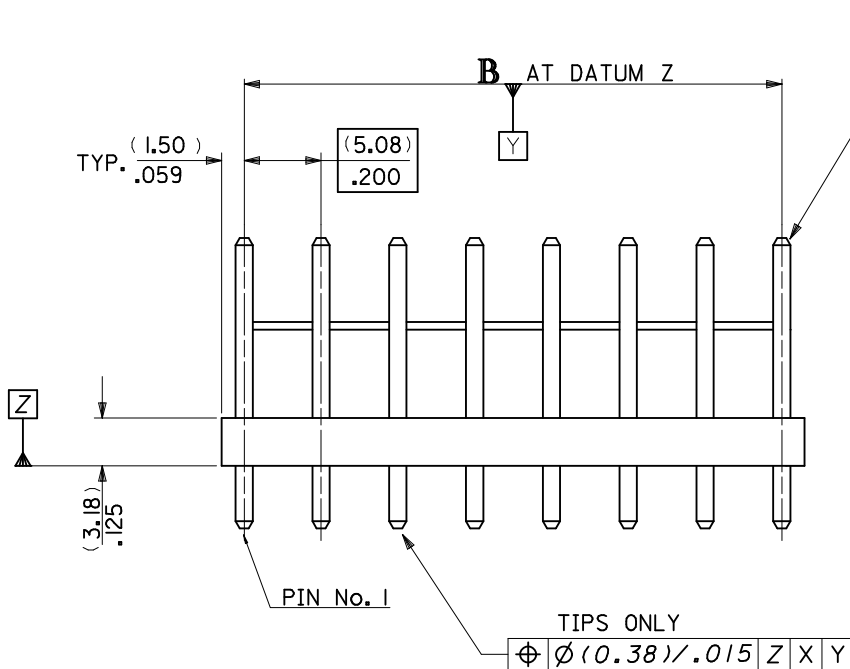
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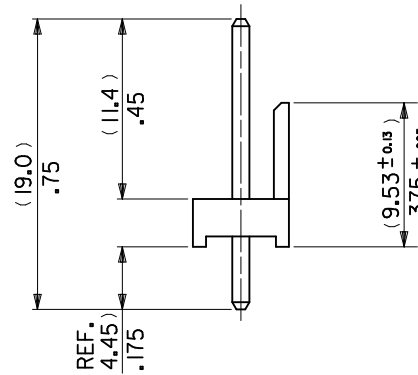
10 9 8 7 6 5 4 3 2 1



No OF CCTS.	DIMn. A	DIMn. B
2	(8.08) .318	(5.08 $\pm$ 0.13) .200 $\pm$.005
3	(13.16) .518	(10.16 $\pm$ 0.13) .400 $\pm$.005
4	(18.24) .718	(15.24 $\pm$ 0.13) .600 $\pm$.005
5	(23.32) .918	(20.32 $\pm$ 0.13) .800 $\pm$.005
6	(28.40) 1.118	(25.40 $\pm$ 0.15) 1.000 $\pm$.006
7	(33.48) 1.318	(30.48 $\pm$ 0.18) 1.200 $\pm$.007
8	(38.56) 1.518	(35.56 $\pm$ 0.18) 1.400 $\pm$.007
9	(43.64) 1.718	(40.64 $\pm$ 0.20) 1.600 $\pm$.008
10	(48.72) 1.918	(45.72 $\pm$ 0.20) 1.800 $\pm$.008
11	(53.80) 2.118	(50.80 $\pm$ 0.20) 2.000 $\pm$.008
12	(58.88) 2.318	(55.88 $\pm$ 0.23) 2.200 $\pm$.009
13	(63.96) 2.518	(60.96 $\pm$ 0.23) 2.400 $\pm$.009
14	(69.04) 2.718	(66.04 $\pm$ 0.25) 2.600 $\pm$.010
15	(74.12) 2.918	(71.12 $\pm$ 0.25) 2.800 $\pm$.010
16	(79.20) 3.118	(76.20 $\pm$ 0.25) 3.000 $\pm$.010
17	(84.28) 3.318	(81.28 $\pm$ 0.28) 3.200 $\pm$.011
18	(89.36) 3.518	(86.36 $\pm$ 0.28) 3.400 $\pm$.011
19	(94.44) 3.718	(91.44 $\pm$ 0.30) 3.600 $\pm$.012
20	(99.52) 3.918	(96.52 $\pm$ 0.30) 3.800 $\pm$.012



TIPS ONLY
 $\phi (0.51) / .020$ Z X Y



TIPS ONLY
 $\phi (0.38) / .015$ Z X Y

AE-2599M-N*-*

VOID CKT.
LOCn.

NO. OF CKTS.

VERSION

SEE SHEET 2

NOTES:

1. WAFER MATERIAL: NYLON 6/6, UL94V-2
2. FOR PLATING, SEE CHARTS.
3. PRODUCT SPECIFICATION: PS-99020-0087
4. PIN PUSH OUT FORCE (13.34N)/3LBS. MIN.
5. PINS MUST CONFORM TO MOLEX SOLDERABILITY SPEC. ES-152.
6. RECOMMENDED PCB THICKNESS 1.6MM.
7. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

PIN POSITION TOL.
EC NO: UCP2010-1815
DRWN:KIPER 2010/05/26
CHKD:SSUSEK 2010/05/26
APPR:FSMTH 2010/06/03
REV
AD

QUALITY
SYMBOLS
 $\nabla = 0$
 $\nabla = 0$

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	$\pm$ ---	$\pm$ ---
3 PLACES	$\pm$ ---	$\pm$.010
2 PLACES	$\pm$ 0.25	$\pm$.014
1 PLACE	$\pm$ 0.35	$\pm$ ---

ANGULAR $\pm$ ---°

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM/IN

DRAWN BY
MC

DATE
23/02/1988

CHECKED BY
DMORIARTY

APPROVED BY
JDENNEY

DATE
2010/05/26

MATERIAL NO.
SEE CHART

SIZE
A3

SCALE
3:1

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

WAIVER KK
(5.08)/.200 CENTRES
WITH POLARIZING WALL

MOLEX INCORPORATED

DOCUMENT NO.
SDAE-2599M-N*

SHEET NO.
1 OF 2

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