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Part Number: [0533751210](#)
Status: **Active**
Overview: [minilock](#)
Description: 2.50mm (.098") Pitch Mini-Lock™ Wire-to-Board Header, Vertical, Friction and Positive Lock, 12 Circuits, Lead-free

Documents:

- | | |
|--|--|
| 3D Model | Product Specification PS-51163-001 (PDF) |
| Drawing (PDF) | Product Specification PS-51163-002 (PDF) |
| Product Specification PS-51103-005 (PDF) | RoHS Certificate of Compliance (PDF) |
| Product Specification PS-51103-007 (PDF) | |

Agency Certification

CSA	LR19980
TUV	R72081037
UL	E29179

General

Product Family	PCB Headers
Series	53375
Application	Wire-to-Board
Overview	minilock
Product Name	Mini-Lock™

Physical

Breakaway	No
Circuits (Loaded)	12
Circuits (maximum)	12
Color - Resin	Natural
Durability (mating cycles max)	30
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Polyester
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.134 In
PC Tail Length (mm)	3.40 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.098 In
Pitch - Mating Interface (mm)	2.50 mm
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

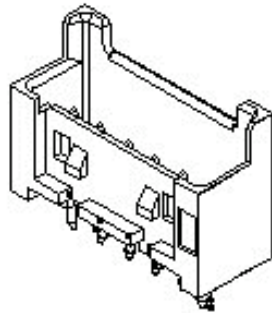


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Contains SVHC: No**
**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
[53375Series](#)

Mates With
Mini-Lock™ Wire-to-Board and Wire-to-Wire
Crimp Terminal [51103](#) , [51102](#) , [51163](#)

Electrical

Current - Maximum per Contact	3A
Voltage - Maximum	250V

Material Info

Reference - Drawing Numbers

Packaging Specification	SPK-53375-001
Product Specification	PS-51103-005, PS-51103-007, PS-51163-001, PS-51163-002, RPS-51103-009, RPS-51103-010, RPS-51103-011, RPS-51103-028, RPS-51103-030, RPS-51103-032, RPS-51103-041, RPS-51103-047, RPS-51103-050, RPS-51103-053, RPS-51103-054, RPS-51103-056, RPS-51163-002
Sales Drawing	SD-53375-001

This document was generated on 05/25/2010

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10

9

8

7

6

5

4

3

2

1

注記 NOTES

△ 偶数極品に適用。
APPLIES ONLY TO EVEN NO. CKT. SIZES.

2. 嵌合相手：51103 シリーズ
MATES WITH : 51103 SERIES.

△ 3極以上のキンク形状は両サイドが ①、その他の極はすべて ② 形状とする。

KINK FORM

MORE THAN 2 CURCUIT:

PINS AT BOTH ENDS ARE KINK FORMED TO ①, THE OTHER PINS ARE KINK FORMED TO ②.

4. 製品番号の下1桁は色を表します。

LAST DIGIT OF PART NUMBER INDICATES COLOR.

0: 白 WHITE 1: 黒 BLACK 2: 赤 RED

3: 黄 YELLOW 4: 青 BLUE

5. 材料 ウェハー: PBTP(15%G.F.), UL94V-0

WEFER

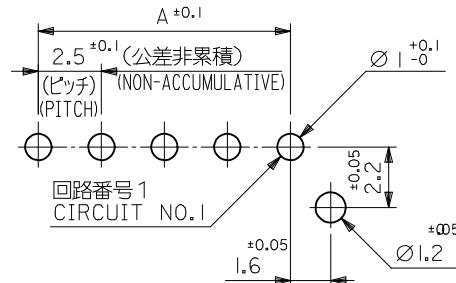
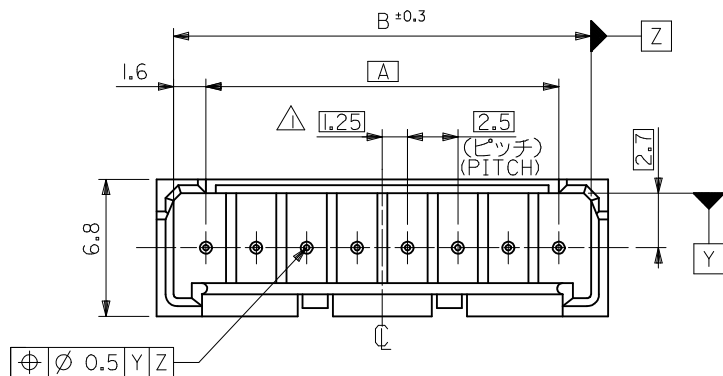
ピン: リン青銅 銅メッキ 1.0 μm以上

下地銅メッキ 0.5 μm以上

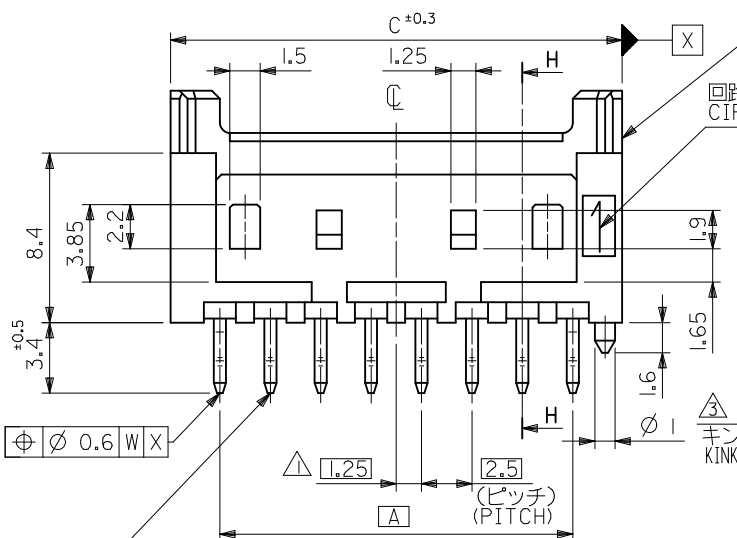
PIN: PHOSPHOR BRONZE,

TIN 1.0 micrometer MINMUM

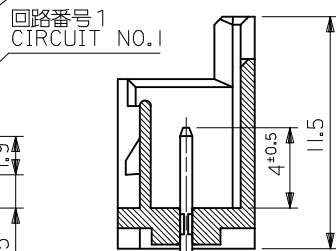
OVER COPPER 0.5 micrometer MINIMUM PLATING.



基板取付穴推奨寸法 (マウント面)
RECOMMENDED P.C.BOARD HOLE DIMENSION
(MOUNTING SIDE)
($t=1.6$) (SCALE 5 : 1)

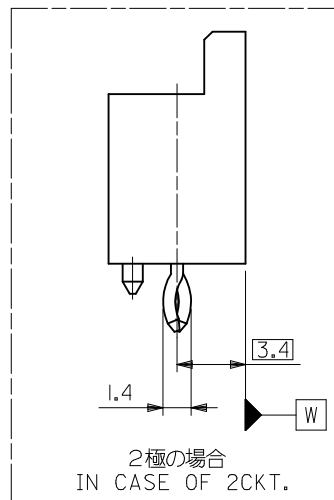


ウェハー
WAFER
PBTP(15%G.F.), UL94V-0



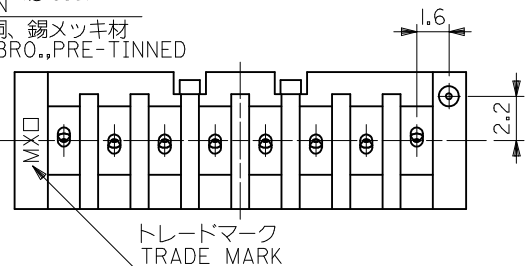
③ ①
キンク形状
KINK FORM

断面 H-H
SECT. H-H



2極の場合
IN CASE OF 2CKT.

ピン (Ø0.6)
リン青銅、錫メッキ材
PHOS. BRO., PRE-TINNED



トレードマーク
TRADE MARK

39.9	38.2	35	53375-151*	15
37.4	35.7	32.5	↑ -141*	14
34.9	33.2	30	-131*	13
32.4	30.7	27.5	-121*	12
29.9	28.2	25	-111*	11
27.4	25.7	22.5	-101*	10
24.9	23.2	20	-091*	9
22.4	20.7	17.5	-081*	8
19.9	18.2	15	-071*	7
17.4	15.7	12.5	-061*	6
14.9	13.2	10	-051*	5
12.4	10.7	7.5	-041*	4
9.9	8.2	5	-031*	3
7.4	5.7	2.5	53375-021*	2
C	B	A	TRAY PACKAGE ORDER NO.	極数 NO. OF CKTS.
			MODEL NO. 53375-xx1*	

REVISED EC NO: J2010-0365 DRWN: GOTO CHKD: KASAKAWA APPR: NUKITA REV G	DESCRIPTION 2009/09/02 2009/09/03 2009/09/03	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		10 UNDER	±0.2	DRAWN BY K. TOJO	DATE 1992/05/06	TITLE 2.5 W/B CONN WAFER ASSY WITH KINK -LEAD FREE-			
		10 OVER 30 UNDER	±0.25	CHECKED BY H. HIRAMOTO	DATE 1994/03/08				
		30 OVER	±0.3	APPROVED BY M. FUKUSUMA	DATE 1994/03/08	MOLEX INCORPORATED			
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.			SHEET NO.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-53375-001			1 OF 2
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

F

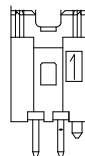
E

D

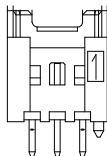
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B

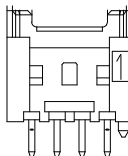
A



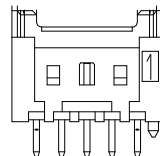
2極
2 CKT.



3極
3 CKT.



4極
4 CKT.



5極
5 CKT.

ロック形状図
LOCK CONFIGURATION

53375-1514	53375-1513		53375-1510	15
			53375-1410	14
			53375-1310	13
53375-1214	53375-1213		53375-1210	12
			53375-1110	11
			53375-1010	10
			53375-0910	9
53375-0814		53375-0812	53375-0810	8
		53375-0712	53375-0710	7
53375-0614	53375-0613	53375-0612	53375-0610	6
		53375-0512	53375-0510	5
			53375-0410	4
			53375-0310	3
53375-0214	53375-0213	53375-0212	53375-0210	2
53375-**14 COLOR : BLUE	53375-**13 COLOR : YELLOW	53375-**12 COLOR : RED	53375**10 COLOR : WHITE	CKT.
TRAY PACKAGE ORDER No.				

REVISED

EC NO: J2010-0365

DRWN: YG010

CHKD: KASAKAWA

APPR: NUKITA

2009/09/02

2009/09/03

2009/09/03

DESCRIPTION

REV

GENERAL TOLERANCES
(UNLESS SPECIFIED)

10 UNDER ±0.2

10 OVER 30 UNDER ±0.25

30 OVER ±0.3

ANGULAR ±3 °

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY
K. TOJO

DATE
1992/05/06

CHECKED BY
H. HIRAMOTO

DATE
1994/03/08

APPROVED BY
M. FUKUSUMA

DATE
1994/03/08

MATERIAL NO.

SEE TABLE

SIZE
A3

SCALE
4:1

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

TITLE
2.5 W/B CONN WAFER ASSY
WITH KINK
-LEAD FREE-

DOCUMENT NO.
SD-53375-001

SHEET NO.
2 OF 2

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