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Part Number: [0533092470](#)
Status: **Active**
Description: 0.80mm (.031") Pitch Board-to-Board Header, Surface Mount, Dual Row, Right Angle, Lead-free, 24 Circuits

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Product Specification PS-52465-014 \(PDF\)](#)
[Product Specification PS-52588-031 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	PCB Headers
Series	53309
Application	Board-to-Board
Product Name	N/A

Physical

Breakaway	No
Circuits (Loaded)	24
Circuits (maximum)	24
Color - Resin	Natural
Durability (mating cycles max)	30
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Mated Height (in)	0.222 In
Mated Height (mm)	5.65 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.016 In, 0.020 In
PC Tail Length (mm)	0.40 mm, 0.50 mm
PCB Locator	No
PCB Retention	None
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.031 In
Pitch - Mating Interface (mm)	0.80 mm
Plating min: Mating (µin)	40
Plating min: Mating (µm)	1
Plating min: Termination (µin)	40
Plating min: Termination (µm)	1
Polarized to PCB	No
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-20°C to +105°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	0.5A
Voltage - Maximum	50V

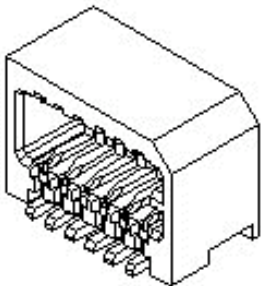


image - Reference only

Series

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
[53309Series](#)

Mates With
[52465 Board-to-Board Receptacle](#)

Material Info

Reference - Drawing Numbers

Product Specification

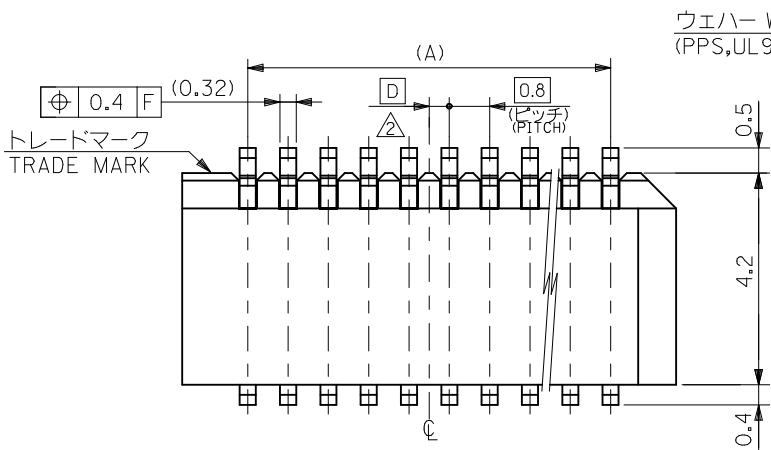
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RPS-52465-047, RPS-52465-049, RPS-52588-040,
RPS-52588-041
SD-53309-011, SD-53309-012

Sales Drawing

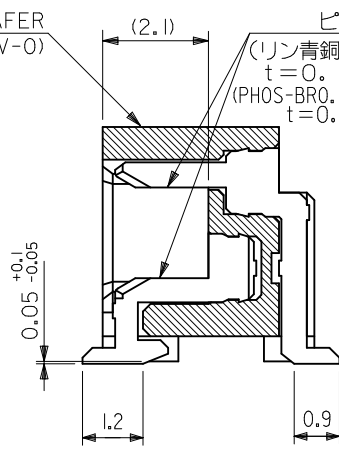
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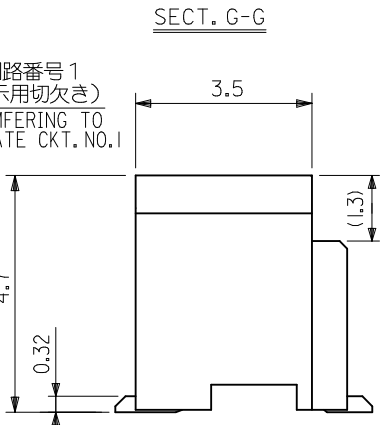
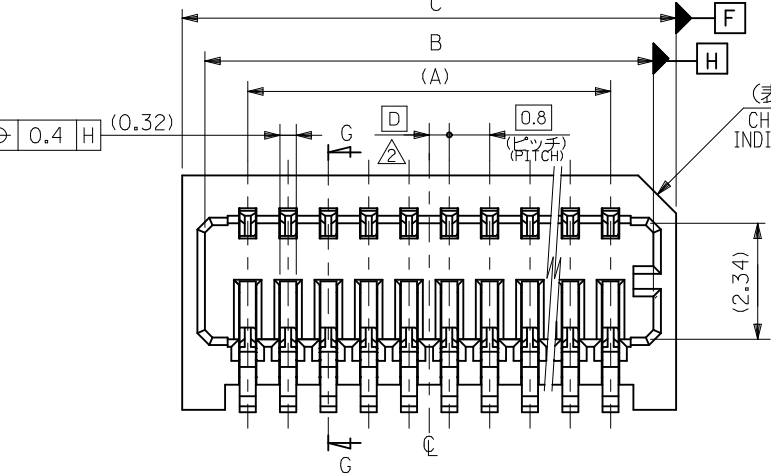
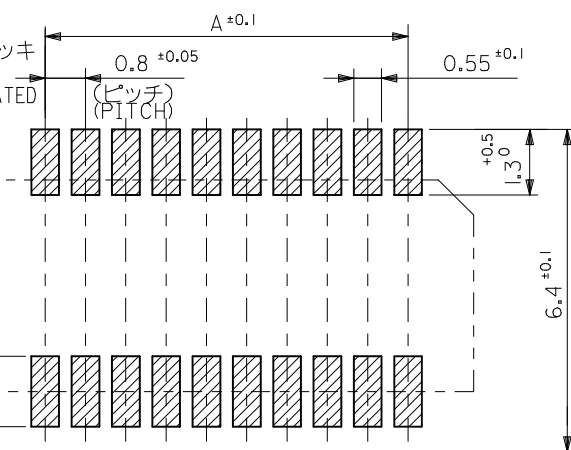
10 9 8 7 6 5 4 3 2 1



ウェハー WAFER
(PPS,UL94V-0)



ピン PIN
(リン青銅、ニッケル下地 錫メッキ
t=0.32)
(PHOS-BRO. TIN OVER NICKEL PLATED
t=0.32)



注記 NOTES

1. 嵌合相手: 52465,52588 シリーズ
MATE WITH : 52465,52588 SERIES
2. ウェハーの C から隣接するピンの C 迄の位置を示す。
SHOW POSITION FROM C OF WAFER TO C OF ADJACENT PINS.
3. 本製品は 53309-**27 の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 53309-**27

0.4	17.8	16.9	15.2	53309-4029	40
0.8	17.0	16.1	14.4	-3829	38
0.4	16.2	15.3	13.6	-3629	36
0.8	15.4	14.5	12.8	-3429	34
0.4	14.6	13.7	12.0	-3229	32
0.8	13.8	12.9	11.2	-3029	30
0.4	13.0	12.1	10.4	-2829	28
0.8	12.2	11.3	9.6	-2629	26
0.4	11.4	10.5	8.8	-2429	24
0.8	10.6	9.7	8.0	-2229	22
0.4	9.8	8.9	7.2	-2029	20
0.8	9.0	8.1	6.4	-1829	18
0.4	8.2	7.3	5.6	-1629	16
0.8	7.4	6.5	4.8	-1429	14
0.4	6.6	5.7	4.0	-1229	12
0.8	5.8	4.9	3.2	53309-1029	10

REVISED EC NO: J2010-1285 DRWN: YON002 CHKD: SMARUYAMA APPR: SMARUYAMA REV	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		10 UNDER	±0.2	DRAWN BY M. NINOMIYA	DATE 2004/03/10	TITLE 0.8 B/B CONN.WAFER ASS'Y R/A SMT(WITHOUT BOSS)					
		10 OVER 30 UNDER	±0.25	CHECKED BY K. TOJO	DATE 2004/03/10						
		30 OVER	±0.3	APPROVED BY M. SASAO	DATE 2004/03/10	MOLEX MOLEX INCORPORATED					
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-53309-011					1 OF 2	
REV				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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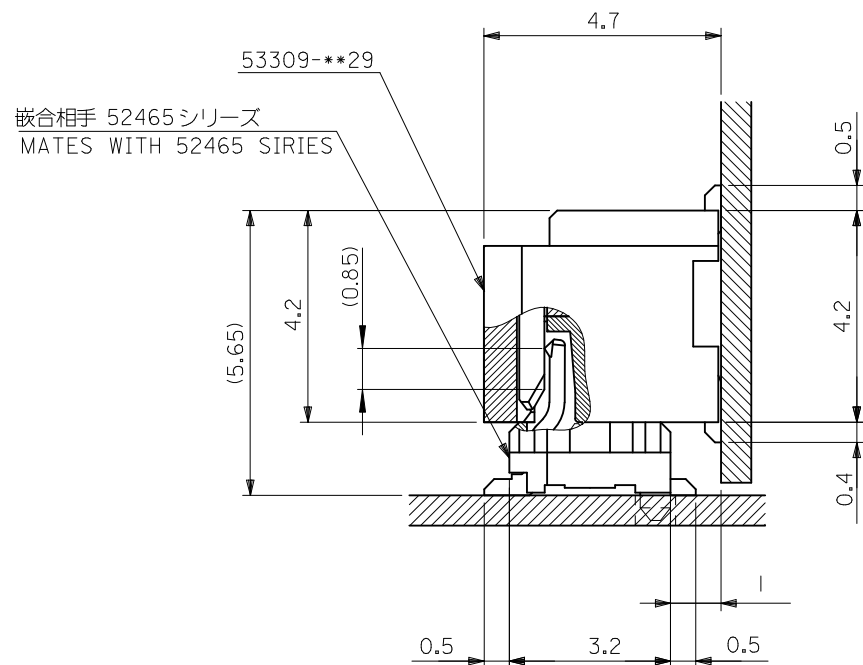
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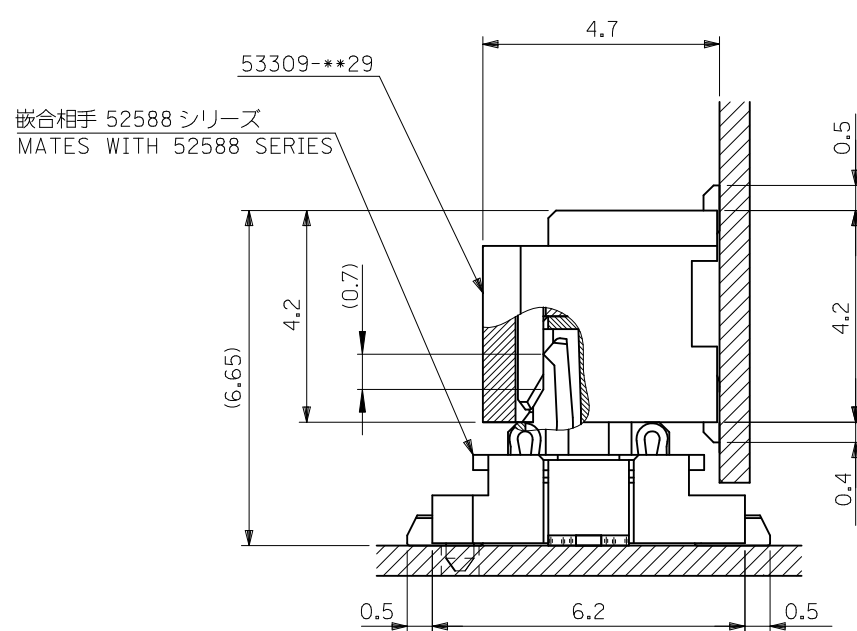
C

B

A



嵌合状態図 (参考)
MATED DRAWING(REF.)



嵌合状態図 (参考)
MATED DRAWING(REF.)

REVISED EC NO: J2010-1285 DRWN: YON002 CHKD: SMARUYAMA APPR: SMARUYAMA 2009/12/17 2009/12/17 2009/12/17	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		10 UNDER	± 0.2	DRAWN BY M. NINOMIYA	DATE 2004/03/10	TITLE 0.8 B/B CONN. WAFER ASS'Y R/A SMT(WITHOUT BOSS)		
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE 2004/03/10			
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2004/03/10	MOLEX INCORPORATED		
		ANGULAR ±3 °		MATERIAL NO. SEE SHEET 1		DOCUMENT NO. SD-53309-011		SHEET NO. 2 OF 2
	B	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

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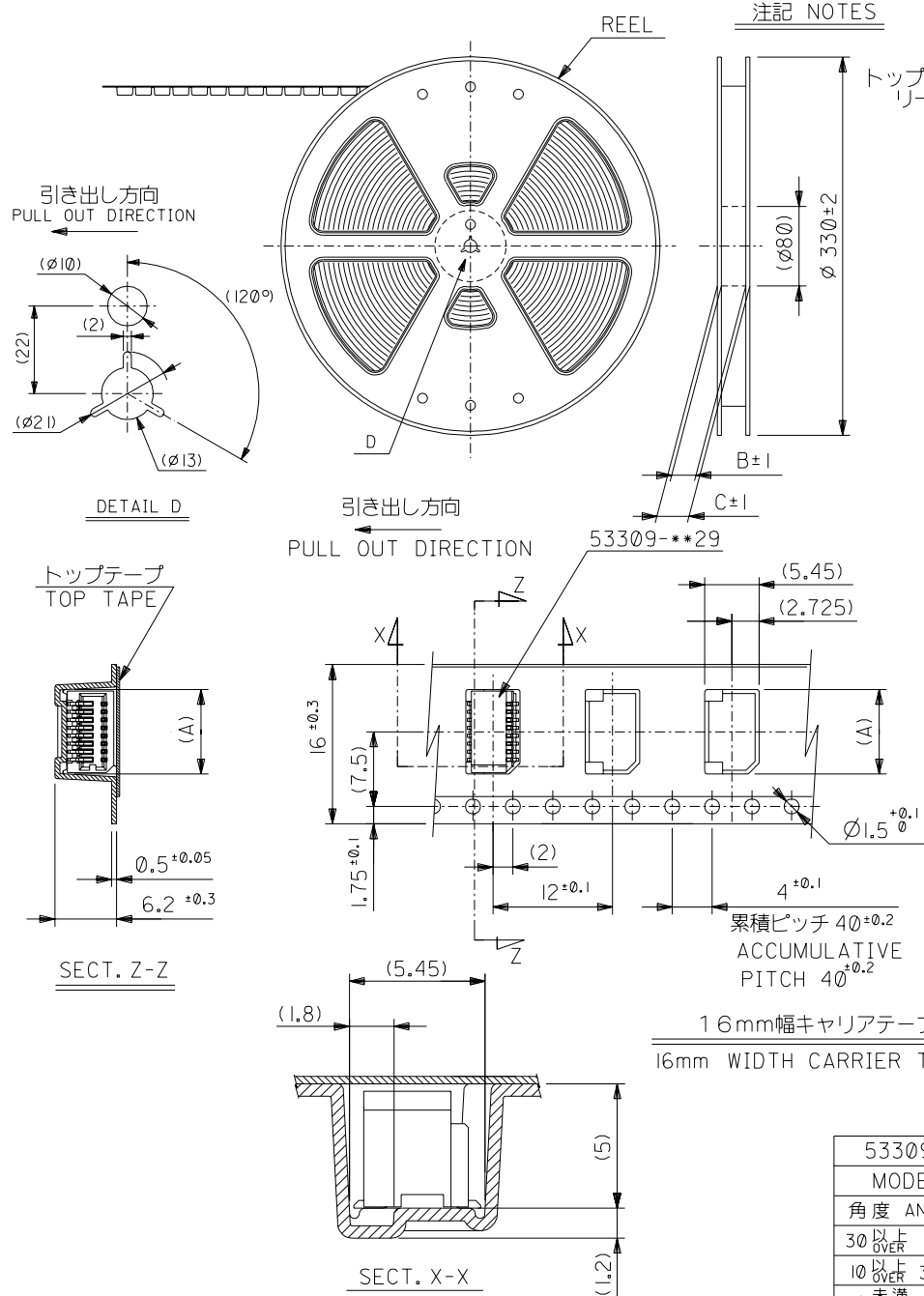
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53309-**70					材料 MATERIAL	注記参照 SEE NOTES	molex MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社
MODEL NO.					仕上げ FINISH	—	REVISE ONLY ON CAD SYSTEM
角度 ANGLE	±3°				適用電線範囲 WIRE RANGE	—	TITLE 名称 0.8 BtB Conn Wafer Assy RA SMT Without Boss Embstp Pkg -LEAD FREE-
30以上 OVER	±0.3				被覆外径 INS. RANGE	—	
10以上 30未満 OVER UNDER	±0.25				DRAWN BY '04/03/10 M.NINOMIYA	CHK'D BY '04/03/10 K.TOJO	DWG. NO. (SHEET 1 OF 2) REV
10未満 UNDER	±0.2	0	新規作成 (J2004-2995)	M.N. K.	APP'D BY '04/03/10 M.SASAO	尺度 SCALE	SD-53309-012
一般公差 GENERAL TOLERANCES		記号 LTR	変更内容 REVISION RECORD	DR. CHK.	日付 DATE		0

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