

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [5020462070](#)
Status: **Active**
Description: 1.25mm (.049") Pitch Duo-Clasp™ Wire-to-Board PCB Receptacle, Dual Row, Right Angle, 20 Circuits

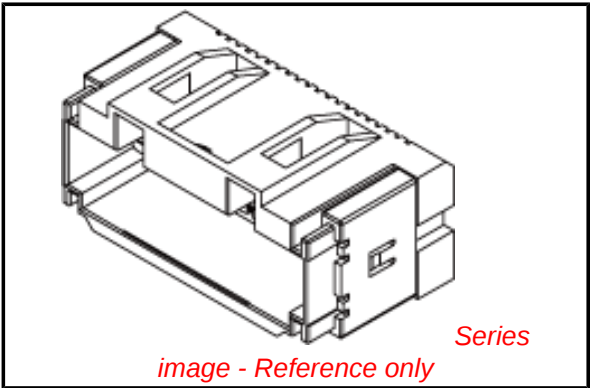
Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Application Specification \(PDF\)](#)
[Product Specification PS-501931-002 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General	
Product Family	PCB Receptacles
Series	502046
Application	Wire-to-Board
Product Name	Duo-Clasp™
Physical	
Circuits (Loaded)	20
Color - Resin	Natural
Durability (mating cycles max)	30
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Mated Height (in)	0.309 In
Mated Height (mm)	7.85 mm
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	2
Orientation	Right Angle
PCB Locator	No
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.049 In
Pitch - Mating Interface (mm)	1.25 mm
Polarized to Mating Part	Yes
Polarized to PCB	No
Stackable	No
Temperature Range - Operating	-25°C to +85°C
Termination Interface: Style	Surface Mount

Electrical	
Current - Maximum per Contact	1A
Voltage - Maximum	50V AC (RMS)/DC

Material Info

Reference - Drawing Numbers	
Application Specification	AS-503110-001, AS-503110-002
Packaging Specification	SPK-502046-001
Product Specification	PS-501931-002, RPS-501931-002
Sales Drawing	SD-502046-001, SD-502046-002



Series
image - Reference only

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

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
[502046Series](#)

Mates With
[503110](#) Crimp Housing . [501930](#) Crimp Terminal

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10 9 8 7 6 5 4 3 2 1

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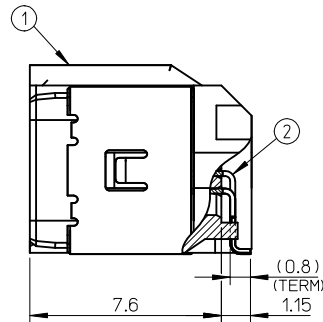
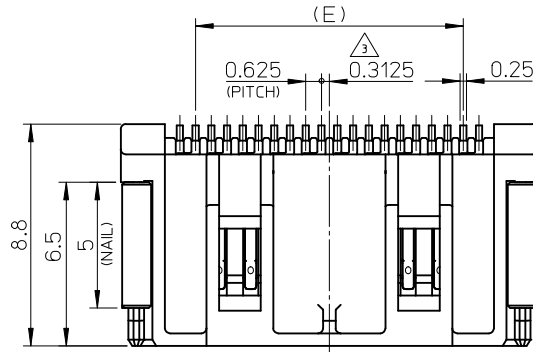
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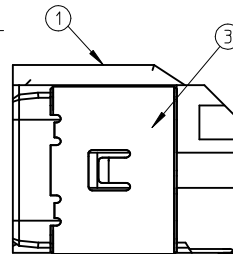
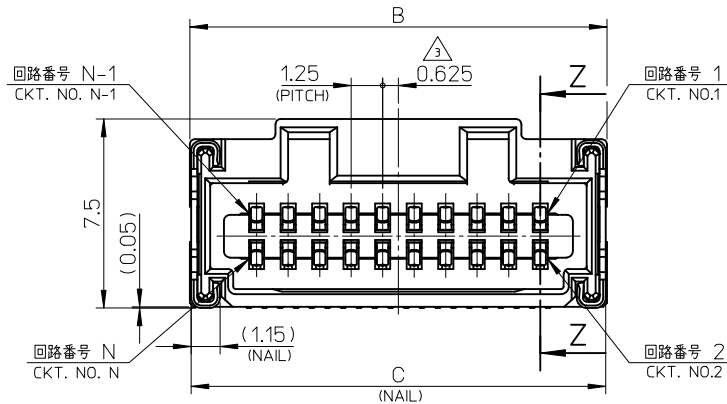
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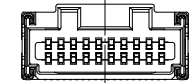
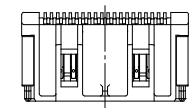
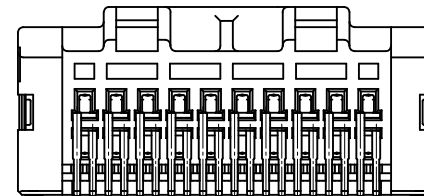


SECTION Z-Z

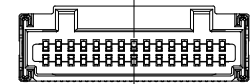
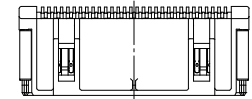


NOTES

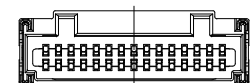
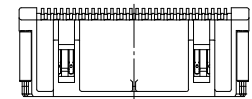
1. 嵌合相手: 503110-****.
MATE WITH: 503110-****.
2. 端子テール部 及び ネイルの平坦度: 0.1MAX.
TAIL AND NAIL COPLANARITY TO BE 0.1 MAX.
3. 極数/2=偶数に適用.
APPLY FOR CKT. SIZE / 2 = EVEN.
4. 端子テール部 及び ネイルに錫めっきを使用しているため、
外観に摺動痕が付く場合があります。
THE WOUND OF FRICTION MIGHT ADHERE TO EXTERNALS
BECAUSE THE TIN PLATING IS USED FOR THE TAIL AND NAIL.
5. 本製品のプラスチック部に黒点等が確認される場合や
色合いが異なる場合がありますが、製品性能に影響はありません。
THERE IS NO INFLUENCE IN THE PRODUCT PERFORMANCE THOUGH
THE BLACK SPOT ETC. MIGHT BE CONFIRMED TO THE PLASTIC PART
OF THIS PRODUCT AND THE SHADE MIGHT BE DIFFERENT.
6. ELV 及び RoHS 適合品
ELV AND RoHS COMPLIANT



20ckt.



30ckt.



40ckt.

極数の種類 (正面図)

KIND OF CKT. NO. (FRONT VIEW)

15.5	24.375	25.9	28.95	29.05	29.5	502046-4070	40
9.25	18.125	19.65	22.7	22.8	23.25	502046-3070	30
3	11.875	13.4	16.45	16.55	17	502046-2070	20
F	E	D	C	B	A	EMBOSSED PACKAGE	極数

オーダー番号 ORDER No. CIRCUITS

CONNECTOR SERIES No. 502046-**00

SCALE 5:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION

1.25 W/B CONN. DUAL
R/A REC. ASS'Y

MOLEX INCORPORATED

DOCUMENT NO. SD-502046-001 SHEET NO. 1 OF 2

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

番号 NO.	部品 PART	材質 MATERIAL
①	ハウジング HOUSING	ポリアミド(PA) UL94V-0 色: 自然色 POLYAMIDE(PA) UL94V-0 COLOR: NATURAL
②	ターミナル TERMINAL	銅合金 COPPER ALLOY 金めっき (接点部): 0.1 micro-meter MIN. GOLD (CONTACT AREA) 錫めっき (テール部): 1.0 micro-meter MIN. TIN (TAIL AREA) ニッケルめっき (下地): 1.0 micro-meter MIN. NICKEL (UNDER PLATING)
③	ネイル NAIL	銅合金 COPPER ALLOY 錫めっき: 1.0 micro-meter MIN. TIN ニッケルめっき (下地): 1.0 micro-meter MIN. NICKEL (UNDER PLATING)

tb_frame_A3_J_ME_S
Rev. E 2006/04/15

9 8 7 6 5 4 3 2 EN-02JA(021)

REVISED	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)
EC NO: J2010-1115 DRWN: YOSHIKAWA CHKD: K. ASAKAWA APPR: NUKITA	2009/12/03 2009/12/07 2009/12/07	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	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY	5:1	METRIC	
DRAWN BY T. MIYAZAKI CHECKED BY K. ASAKAWA APPROVED BY S. ICHIKAWA	DATE 2006/03/13 2006/03/13 2006/03/13	TITLE 1.25 W/B CONN. DUAL R/A REC. ASS'Y	

SIZE	DOCUMENT NO.	SHEET NO.
A3	SD-502046-001	1 OF 2

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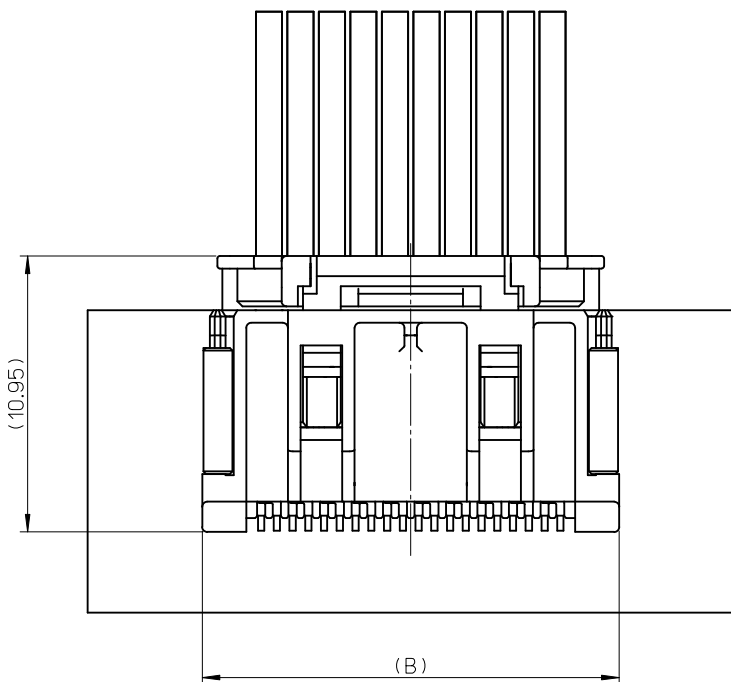
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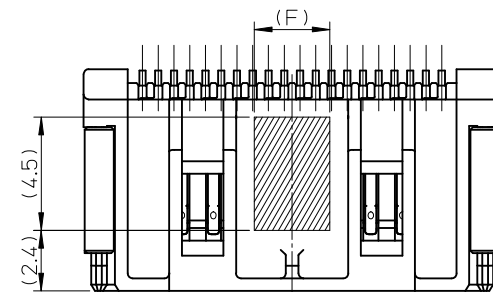
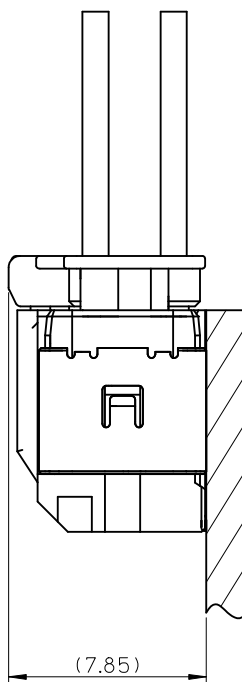
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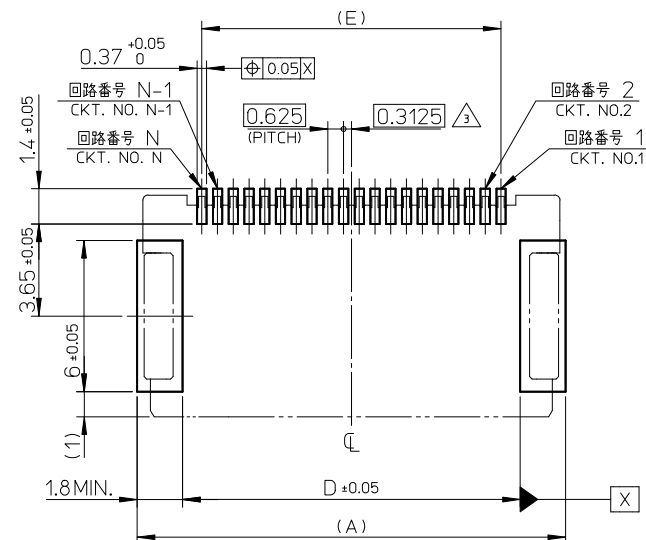
A



嵌合図
MATED CONNECTORS



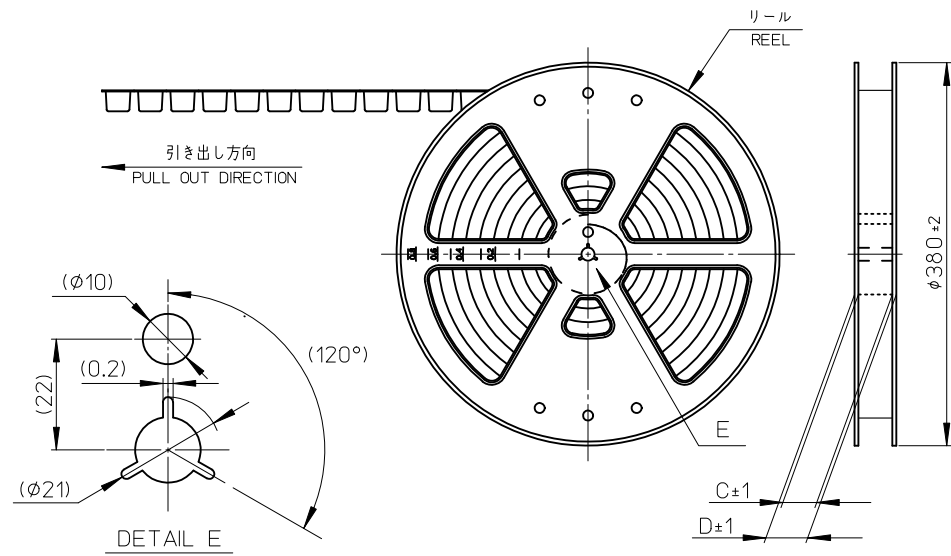
吸着範囲
VACUME AREA



基板パターンレイアウト (参考)
RECCOMENDED P.C.B. PATTERN LAYOUT (REF.)

REVISED	EC NO: J2010-1115 DRWN: NYOSHIKAWA CHKD: K.ASAKAWA APPR: NUKITA	2009/12/03 2009/12/07 2009/12/07	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
				10 UNDER	± 0.2	DRAWN BY T.MIYAZAKI	DATE 2006/03/13	TITLE 1.25 W/B CONN. DUAL R/A REC. ASS'Y			
				10 OVER 30 UNDER	± 0.25	CHECKED BY K.ASAKAWA	DATE 2006/03/13				
				30 OVER	± 0.3	APPROVED BY S.ICHIKAWA	DATE 2006/03/13	MOLEX INCORPORATED			
				ANGULAR ±3 °		MATERIAL NO.					DOCUMENT NO.
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET1		SD-502046-001			2 OF 2
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

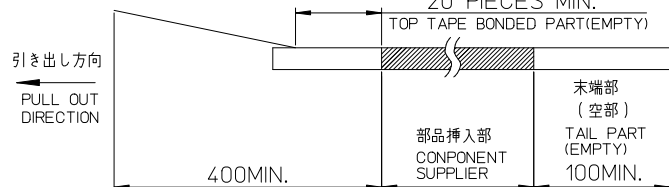
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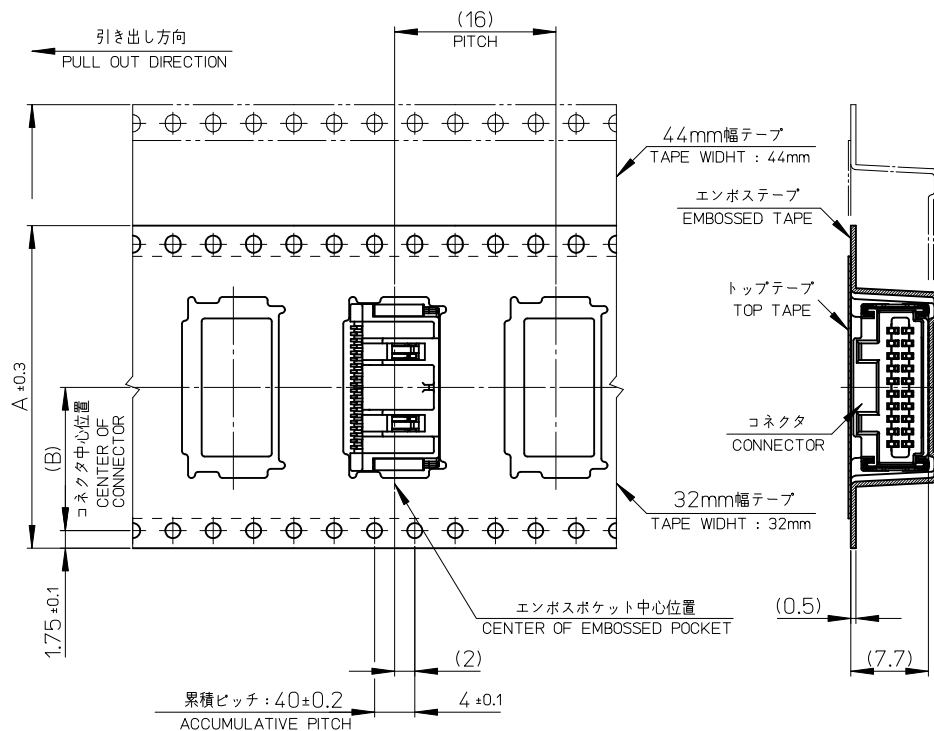
NOTES

- 製品詳細寸法については、SD-502046-001 を参照下さい。
PLEASE REFER TO SD-502046-001 FOR THE DETAILED DIMENSION OF THE CONNECTOR.
- 梱包数量 : 650個
NUMBER OF CONNECTORS : 650 PIECES/REEL.
- リードテープ長さ
LEAD TAPE LENGTH

トップテープ接着部 (空エンボス)
20 PIECES MIN.
TOP TAPE BONDED PART(EMPTY)



- 材料 MATERIAL
キャリアテープ : ポリスチレン (PS)
CARRIER TAPE : POLYSTYRENE (PS)
トップテープ : ポリエステル (PET) 、その他
TOP TAPE : POLYESTER (PET) 、OTHER
リール : ポリスチレン (PS) <リサイクル材を含む>
REEL : POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>
- ELV 及び RoHS 適合品
ELV AND RoHS COMPLIANT



49.4	45.4	20.2	44	44	502046-4070	40
49.4	45.4	20.2	44	44	502046-3070	30
37.4	33.4	14.2	32	32	502046-2070	20
D	C	B	A	エンボスステップ幅 A WIDTH OF TAPE	EMBOSSED PACKAGE オーダー番号 ORDER No.	極数 CIRCUITS

CONNECTOR SERIES No. 502046-**00

REVISED	EC NO: J2010-1115	DRWN: NYOSHIKAWA	2009/12/03	CHKD: K. ASAKAWA	2009/12/07	APPR: NUKITA	2009/12/07	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
								DRAWN BY DATE		TITLE					
								10 UNDER	± 0.2	T. MIYAZAKI	2006/03/13	1.25 W/B CONN. DUAL R/A REC. EMBTP PKG			
								10 OVER 30 UNDER	± 0.25	K. ASAKAWA	2006/03/13				
								30 OVER	± 0.3	S. ICHIKAWA	2006/03/13	MOLEX INCORPORATED			
ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.									
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-502046-002		1 OF 1									
B	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													