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Part Number: [5019312070](#)
Status: **Active**
Description: 1.25mm (.049") Pitch Duo-Clasp™ Wire-to-Board PCB Receptacle, Dual Row, Vertical, 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	501931
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)	0.431 In
Mated Height (mm)	10.95 mm
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	2
Orientation	Vertical
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

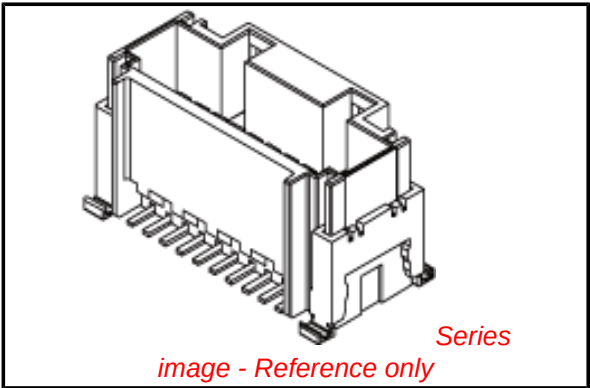
Electrical

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-501931-001
Product Specification	PS-501931-002, RPS-501931-002
Sales Drawing	SD-501931-001, SD-501931-002



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status
Not Reviewed



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.

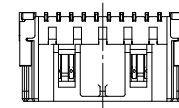
Search Parts in this Series
[501931](#)Series

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

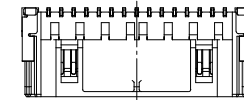
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NOTES

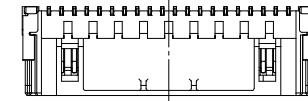
1. 嵌合相手: 503110-****.
MATE WITH: 503110-****.
2. 端子テール部 及び ネイルの平坦度: 0.1MAX.
TAIL AND NAIL COPLANARITY TO BE 0.1 MAX.
3. 極数/2=偶数に適用.
APPLY FOR CKT. SIZE / 2 = EVEN.
4. 端子テール部 及び ネイルに錫めっきを使用しているため、
外観に摺動痕が付く場合が御座います。
THE WOUND OF FRICTION MIGHT ADHERE TO EXTERNALS
BECAUSE THE TIN PLATING IS USED FOR THE 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)

17	23.75	25.3	27.3	29.05	29.5	501931-4070	40
10.75	17.5	19.05	21.05	22.8	23.25	501931-3070	30
4.5	11.25	12.8	14.8	16.55	17	501931-2070	20
F	E	D	C	B	A	EMBOSSED PACKAGE	極数
オーダー番号 ORDER No.							CIRCUITS

CONNECTOR SERIES No. 501931-**00

SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
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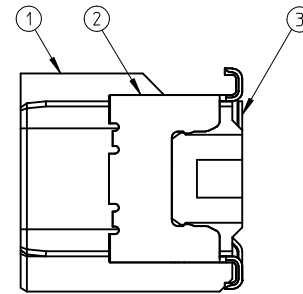
1.25 W/B CONN. DUAL
S/T REC. ASS'Y

MOLEX INCORPORATED

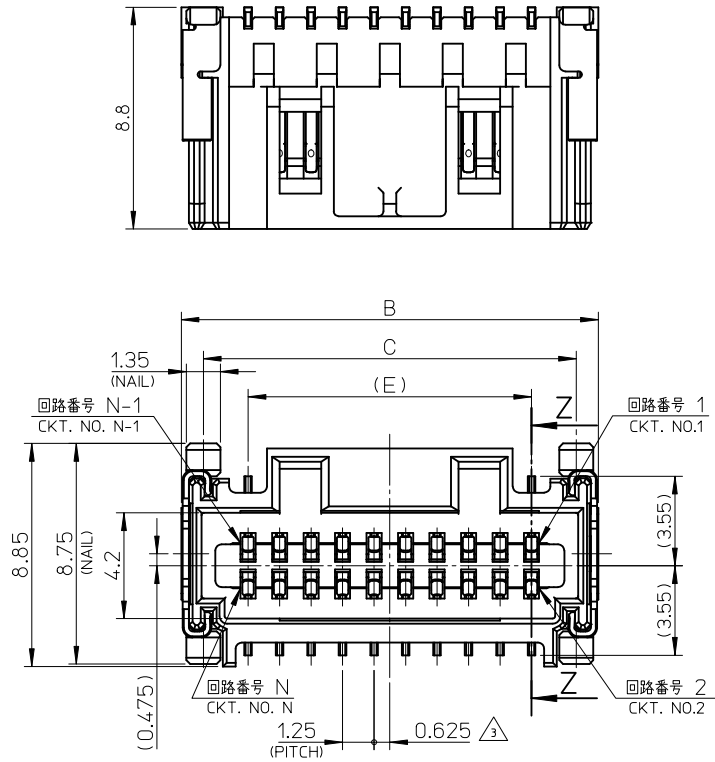
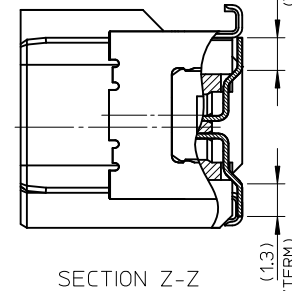
DOCUMENT NO. SD-501931-001 SHEET NO. 1 OF 2

SEE TABLE

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
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SECTION Z-Z



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)

F

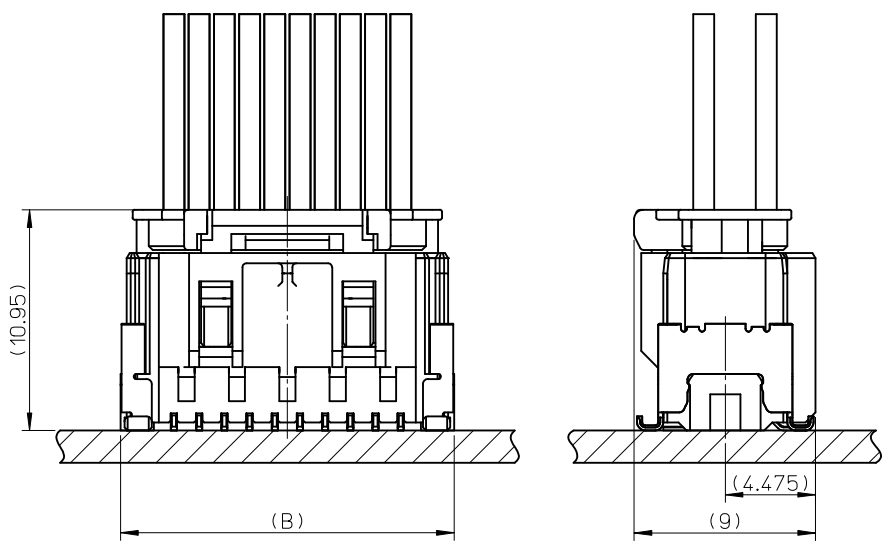
E

D

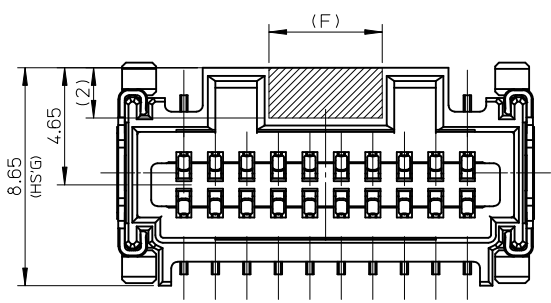
C

B

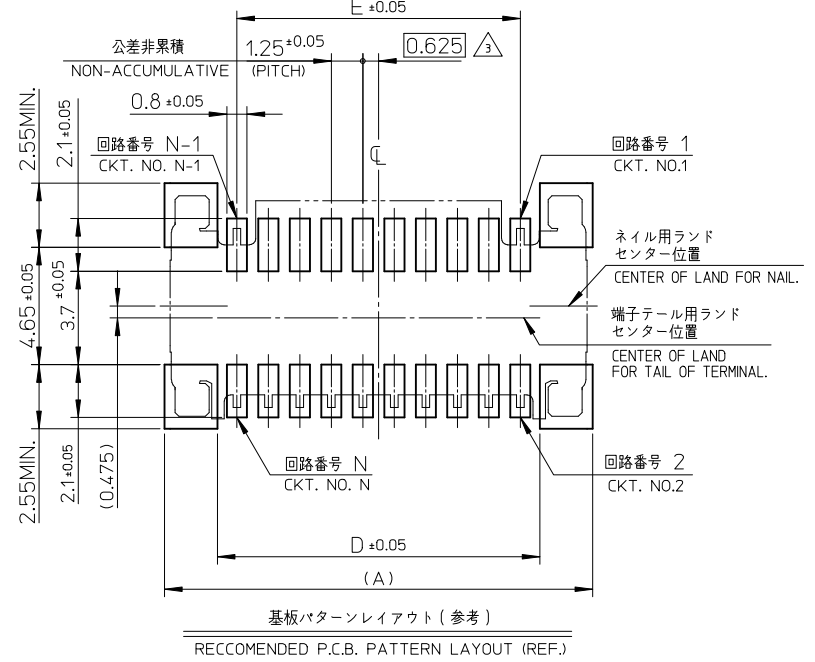
A



嵌合図
MATED CONNECTORS



吸着範囲
VACUME AREA



REVISED EC NO: J2010-1115 DRWN:YOSHIKAWA CHKD:K.ASAKAWA APPR:NUKITA	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 S/T 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			
		ANGULAR ±3 °		MATERIAL NO.				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET1				
	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
				DOCUMENT NO. SD-501931-001		SHEET NO. 2 OF 2		

