

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

5010142071

Status:

Active

Description:

0.50mm (.020") Pitch Cradlecon™ I/O Plug, SMT, Right Angle, Through Hole Shell Tabs, 20 Circuits

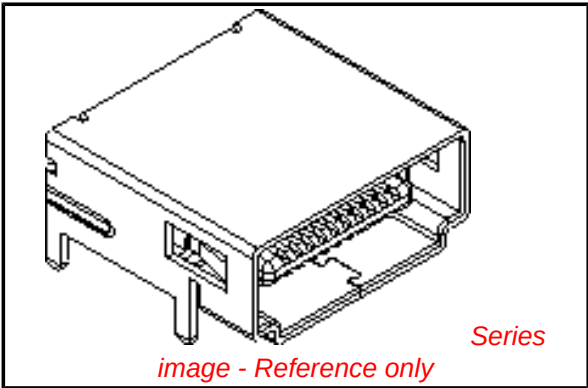


image - Reference only

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Product Specification PS-54944-028 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	I/O Connectors
Series	501014
Application	Board-to-Board
Component Type	Plug
Product Name	CradleCon™
Type	N/A

Physical

Boot Color	N/A
Circuits (Loaded)	20
Circuits (maximum)	20
Color - Resin	Black
Gender	Plug
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Right Angle
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.031 In, 0.039 In
PCB Thickness Recommended (mm)	0.80 mm, 1.00 mm
Packaging Type	Embossed Tape on Reel
Panel Mount	No
Pitch - Mating Interface (in)	0.020 In
Pitch - Mating Interface (mm)	0.50 mm
Pitch - Term. Interface (in)	0.020 In
Pitch - Term. Interface (mm)	0.50 mm
Plating min: Mating (µin)	8
Plating min: Mating (µm)	0.2
Plating min: Termination (µin)	80
Plating min: Termination (µm)	2
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	1
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-20°C to +60°C
Termination Interface: Style	Surface Mount
Waterproof / Dustproof	No

Electrical

Current - Maximum per Contact	0.5A
Shield Type	Full Shield
Shielded	Yes

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

501014Series

Mates With

[51283](#) -20*6 Vertical, [Link:54944-2070](#) Right
Angle

Voltage - Maximum

30V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Product Specification

PS-54944-028, RPS-54944-012, RPS-54944-013

Sales Drawing

SD-501014-001, SD-501014-002

This document was generated on 04/19/2010

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DWG. NO.
SD-501014-001

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DO NOT SCALE DRAWING

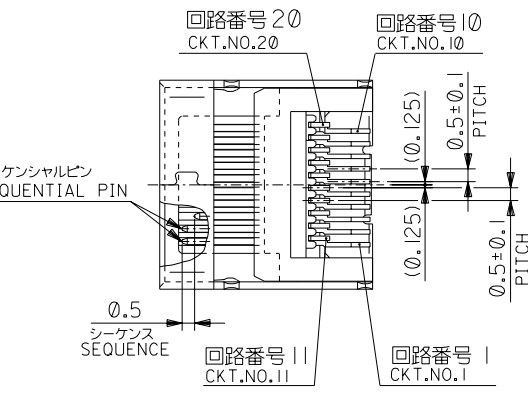
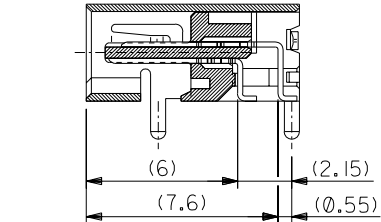
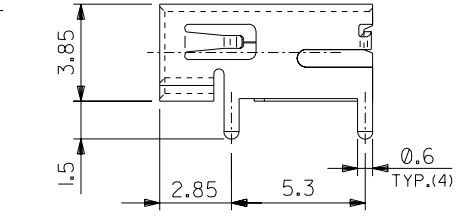
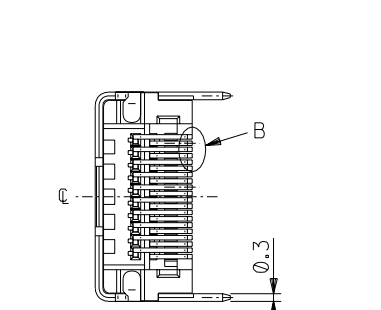
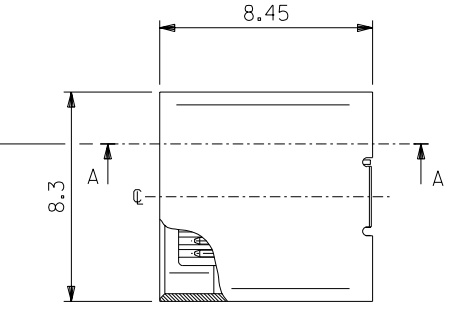
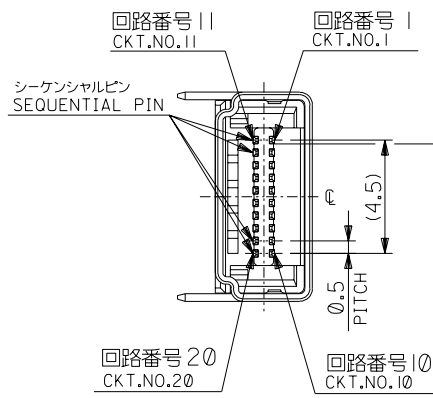
EC NO. DRWN: CHK: APPR:	EC NO. DRWN: CHK: APPR:	EC NO. DRWN: CHK: APPR:	EC NO. DRWN: CHK: APPR:	EC NO. DRWN: CHK: APPR:	RELEASED '04/05/11 EC NO. J2004-4159 DRWN: T.UENO CHK: M.SASAO APPR: M.SASAO
					DESCRIPTION
					WIRE RANGE 適用電線範囲
					INS. RANGE 被覆外径

MATERIAL 材料	#
FINISH 仕上げ	#
WIRE RANGE 適用電線範囲	#
INS. RANGE 被覆外径	#

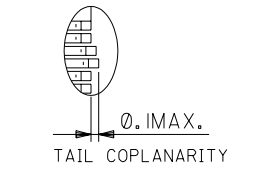
GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差	
10 UNDER 未満	±0.2
10 OVER 30 UNDER 以上 未満	±0.25
30 OVER 以上	±0.3
ANGLE 角度	±3°

SCALE 5-1	DESIGN UNITS ☒ mm ☐ INCH
DRAWN BY & DATE T.UENO '04/05/11	CHECKED BY & DATE M.SASAO '04/05/11
APPROVED BY & DATE M.SASAO '04/05/11	CAD FILENAME SD-501014-001.S01

THIRD ANGLE PROJECTION	TITLE: 0.5 I/O CONN. PLUG HS'G ASS'Y 20CKT. -LEAD FREE-
MOLEX INCORPORATED	
MATERIAL NO. SEE CHART	DRAWING NO. SD-501014-001
SHEET NO. 1 OF 2	



SECTION A-A



DETAIL B
SCALE: 10-1

NOTE:

- 適合リセ番号: 54944-20**, 51283-20**
(R/A TYPE) (STRAIGHT TYPE)
APPLICABLE REC. NO.: 54944-20**, 51283-20**
(R/A TYPE) (STRAIGHT TYPE)
- 材質
MATERIAL
2-1. ハウジング: ガラス入り耐熱樹脂
94V-0, 黒色
HOUSING: G.F.HEAT RESISTANT PLASTIC
94V-0, BLACK COLOR
2-2. ターミナル: 銅合金
TERMINAL COPPER ALLOY
2-3. プラグ シールド: ステンレス鋼
PLUG SHIELD STAINLESS STEEL
- メッキ仕様
PLATING
3-1. ターミナル
TERMINAL
3-1-1. 接点部: 金メッキ 0.1 MICROMETER MIN.
CONTACT AREA GOLD
: パラジウムニッケルメッキ 0.2 MICROMETER MIN.
PALLADIUM-NICKEL
3-1-2. 半田付け部: 錫メッキ 1.0 MICROMETER MIN.
SOLDER TAIL AREA TIN
3-1-3. 下地メッキ: ニッケルメッキ 1.5 MICROMETER MIN.
UNDER-PLATING NICKEL
3-2. プラグ シールド
PLUG SHIELD
3-2-1. 錫メッキ: 1.0 MICROMETER MIN.
TIN
3-2-2. 下地メッキ: ニッケルメッキ 1.0 MICROMETER MIN.
UNDER-PLATING NICKEL
- 本製品は 55768-20** の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 55768-20**.

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SD-501014-001.S01

DWG. NO.
SD-501014-002

F

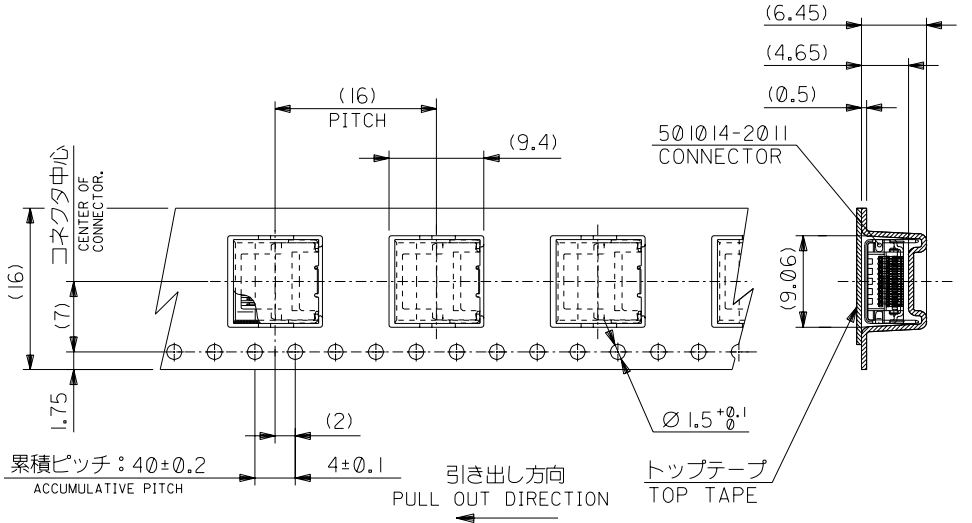
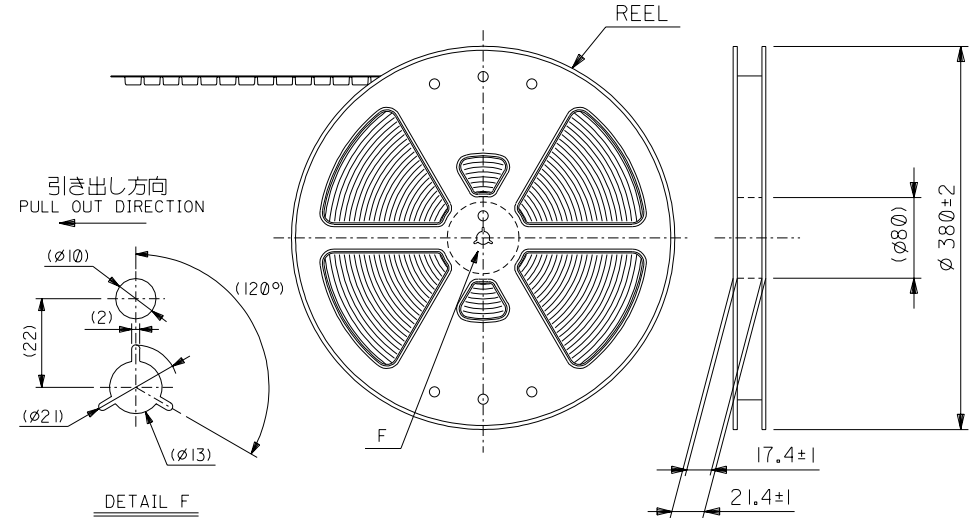
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DO NOT SCALE DRAWING



注 記
NOTES

- 製品番号 501014-2011 の詳細寸法については、SD-501014-001 を参照下さい。
IN THE PACKAGE, PART NO. 501014-2011 RE DETAILED DIMENSIONS, SEE SD-501014-001.
 - 梱包数量 : 900 個/リール
NUMBER OF CONNECTORS : 900 PCS/REEL
 - リードテープ長さ
LEAD TAPE LENGTH
- トップテープ接着部
TOP TAPE BONDED PART
(空エンボス)
(EMPTY)
- 20PCS. MIN.
- トップテープ
リーダー部
TOP TAPE LEADER PART
400 MIN.
- 部品挿入部
COMPONENT
SUPPLIER
- 末端部
(空部)
TAIL PART
(EMPTY)
160 MIN.
- トップテープの剥離強度 : (剥離方向は下図参照)
PEELING OFF FORCE OF TOP TAPE (PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
0.1N ~ 1.3N (10gf ~ 130gf)
尚、本規格値は、出荷時に適用。
(但し、輸送時に剥離が発生しない事。)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT
(PEEL OFF SHOULD NOT BE ALLOWED, DURING TRANSPORTATION)
- 剥離方向
PEEL OFF DIRECTION
- 引き出し方向
PULL OUT DIRECTION
- 10°
- 材料
MATERIAL
キャリアテープ : ポリプロピレン (PP)
CARRIER TAPE : POLYPROPYLENE (PP)
トップテープ : PET, PE, PEF
TOP TAPE : PET, PE, PEF
リール : ポリスチレン
REEL : POLYSTYLENE
 - 本製品は 55768-2091 の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 55768-2091.

20	501014-2011	501014-2071	501014-***7*
CKT.	CONNECTOR	MATERIAL NO.	MODEL NO.
		DIMENSIONS:	SHT REV
		☐ mm ☐ INCH ☒ mm ONLY	REVISE ON CAD ONLY
		THIRD ANGLE PROJECTION	
		TITLE:	
		EMBOSSED TAPE PACKAGE FOR 501014	
		-LEAD FREE-	
		MATERIAL NO.	DRAWING NO.
		SD-501014-002.S01	SD-501014-002
		SHEET NO.	1 OF 1
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	SIZE B

MATERIAL 材料	SEE NOTES
FINISH 仕上げ	—
WIRE RANGE 適用電線範囲	—
INS. RANGE 被覆外径	—

GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差	SCALE —	DESIGN UNITS ☒ mm ☐ INCH
10 UNDER 未満	±0.2	DRAWN BY & DATE T.UENO '04/05/11
10 OVER 以上	±0.25	CHECKED BY & DATE M.SASAO '04/05/11
30 UNDER 未満	±0.3	APPROVED BY & DATE M.SASAO '04/05/11
30 OVER 以上	±3°	CAD FILENAME SD-501014-002.S01
ANGLE 角度		

REVISIONS	REV	DESCRIPTION
1	0	INITIAL RELEASE

REVISED '04/05/26	EC NO. J2004-4439	DRWN: T.UENO	CH'K: M.SASAO	APPR: M.SASAO
RELEASED '04/05/11	EC NO. J2004-4159	DRWN: T.UENO	CH'K: M.SASAO	APPR: M.SASAO
A	0			