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Part Number: [5015944411](#)
Status: **Active**
Overview: [slimstack_mm016_pitch](#)
Description: 0.40mm (.016") Pitch Board-to-Board SlimStack™ Plug, SMT, Dual Row, Vertical Stacking, 0.90mm (.035") Stacking Height, With Solder Tabs, 44 Circuits

Documents:
[3D Model](#) [Product Specification PS-501591-002 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	PCB Headers
Series	501594
Application	Board-to-Board
Overview	slimstack_mm016_pitch
Product Name	SlimStack™

Physical

Breakaway	No
Circuits (Loaded)	44
Color - Resin	Black
Durability (mating cycles max)	20
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Mated Height (in)	0.035 In
Mated Height (mm)	0.90 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Number of Rows	2
Orientation	Vertical
PCB Locator	No
PCB Retention	Yes
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.016 In
Pitch - Mating Interface (mm)	0.40 mm
Polarized to Mating Part	No
Polarized to PCB	No
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-25°C to +85°C
Termination Interface: Style	Surface Mount

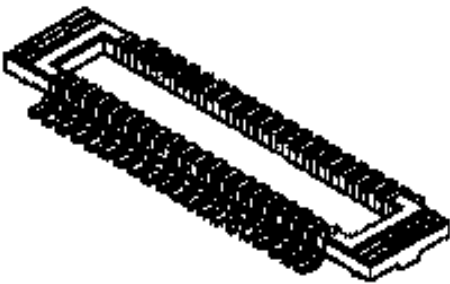
Electrical

Current - Maximum per Contact	0.3A
Voltage - Maximum	50V AC (RMS)/DC

Material Info

Reference - Drawing Numbers

Packaging Specification	SPK-501594-001
Product Specification	PS-501591-002, RPS-501591-010, RPS-501591-012, RPS-501591-016, RPS-501591-019, RPS-501591-020
Sales Drawing	SD-501594-005, SD-501594-006



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.

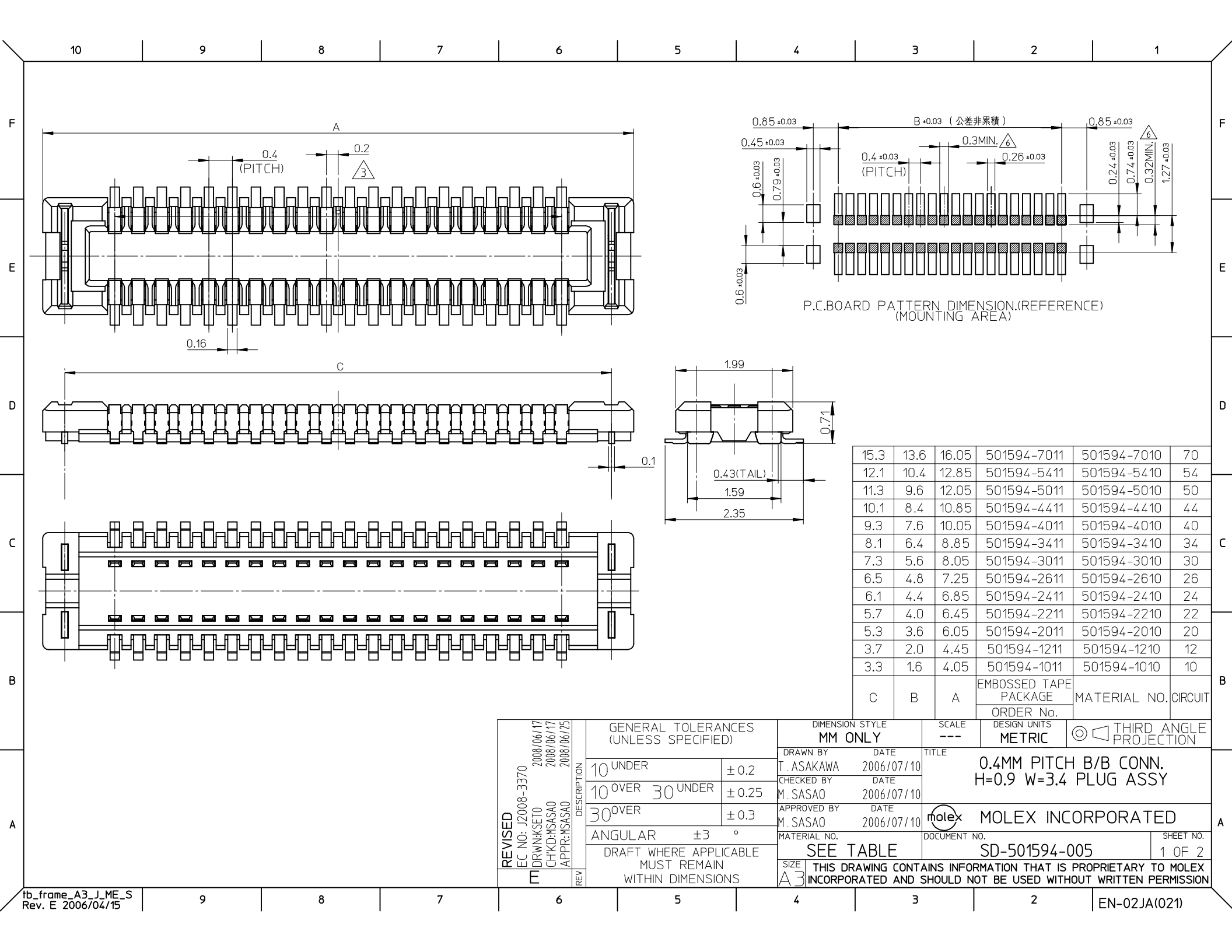
Search Parts in this Series

[501594Series](#)

Mates With

[501591](#) SlimStack™ Board-to-Board Receptacle

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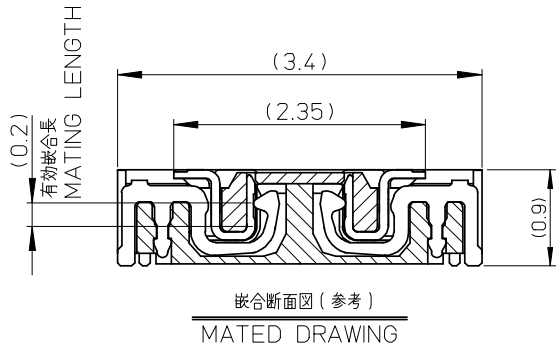
E

D

C

B

A



注記 NOTES

1.使用材料
MATERIAL

ハウジング : 液晶ポリマー (LCP) ガラス充填 UL-94V-0 (黒)
HOSING : LIQUID CRYSTAL POLYMER (GLASS FILLED) UL94V-0 (COLOR:BLACK)

ターミナル : りん青銅 ($t=0.08$)
TERMINAL : PHOSHOR BRONZE ($t=0.08$)

金具 : りん青銅 ($t=0.1$)
FITTING NAIL : PHOSHOR BRONZE ($t=0.1$)

2.メッキ仕様
PLATING

ターミナル
TERMINAL

金メッキ 0.1マイクロメートル以上 (コンタクト部)
GOLD 0.1 MICROMETER MINIMUM (CONTACT AERA)

金メッキ 0.03マイクロメートル以上 (テール部)
GOLD 0.03 MICROMETER MINIMUM (TAIL AERA)

下地メッキ : ニッケルメッキ 1.0 マイクロメートル以上
UNDER PLATING : NICKEL 1.0 MICROMETER MINIMUM

金具
FITTING NAIL

錫メッキ : 1.0マイクロメートル以上
TIN PLATING : 1.0 MICROMETER MINIMUM

下地メッキ : ニッケル1.0マイクロメートル以上
UNDER PLATING : NICKEL 1.0 MICROMETER MINIMUM

3. (全極数/2)=偶数の場合に適用
APPLY FOR (CIRCUIT/2)=EVEN

4.嵌合相手 : 501591-**10シリーズ
WITH MATE : 501591-**10SERIES

5.テール及び金具の平坦度は、0.1以下
TAIL AND FITTING NAIL COPLANARITY TO BE 0.1 MAXIMUM

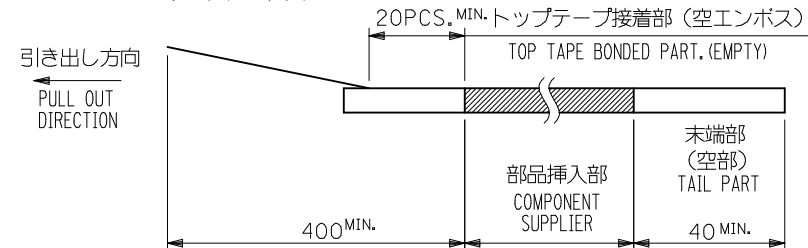
6.斜線部はパターン書き込み禁止範囲と半田禁止範囲を示す。
ただし、斜線部に同一配線を配置する場合はレジストを施し、この部分に半田は無きこと。
NO PATTERN CIRCUIT AND NO SOLDER ALLOWED IN THE SHADED AREA.
HOWEVER, IF NEEDED TO ADD A TRACE OF THE SAME CIRCUIT, PUT THE SOLDER-RESIST,
YET NO SOLDER ALLOWED IN THE AREA.

7.ELV AND RoHS COMPLIANT.

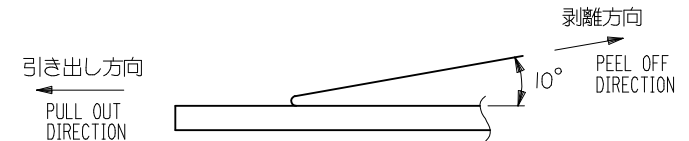
REVISED EC NO: J2008-3370 DRWN:KSETO CHKD:MSASAO APPR:MSASAO	2008/06/17 2008/06/17 2008/06/25	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			10 UNDER	± 0.2	DRAWN BY T. ASAKAWA		DATE 2006/07/10	TITLE 0.4MM PITCH B/B CONN. H=0.9 W=3.4 PLUG ASSY			
			10 OVER 30 UNDER	± 0.25	CHECKED BY M. SASAO		DATE 2006/07/10				
			30 OVER	± 0.3	APPROVED BY M. SASAO		DATE 2006/07/10	MOLEX INCORPORATED			
			ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-501594-005		2 OF 2		
			REV			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

NOTES

- 製品詳細寸法については製品単体図面を参照下さい。
RE DETAILED DIMENSION, SEE PRODUCT DRAWING.
- 梱包数量： 3000 個/リール
NUMBER OF CONNECTORS : 3000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- トップテープの剥離強度： JES-59 参照
剥離方向は下図参照。
PEELING OFF STRENGTH OF TOP TAPE : REFER TO JES-59
PEELING DIRECTION AS SHOWN IN FOLLOWING FIGURE.



- 材料 MATERIAL
キャリアテープ (CARRIER TAPE)：ポリスチレン (POLYSTYRENE)
トップテープ (TOPTAPE)：PET , PE , PEF
リール (REEL)：ポリスチレン (PS) <リサイクル材を含む>
POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>

6.ELV AND RoHS COMPLIANT.

REVISED EC NO: J2008-3370 2008/06/17 DRW:KSETO 2008/06/17 CHKD:MSASAO 2008/06/25 APPR:MSASAO	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY TASAKAWA	DATE 2006/07/10	TITLE 0.4MM PITCH B/B CONN. PLUG ASSY (HGT=0.9) EMBSTP PKG MOLEX INCORPORATED		DOCUMENT NO. SD-501594-006	SHEET NO. 1 OF 2		
		10 OVER 30 UNDER	± 0.25	CHECKED BY MSASAO	DATE 2006/07/10						
		30 OVER	± 0.3	APPROVED BY MSASAO	DATE 2006/07/10						
		ANGULAR ± 3 °		MATERIAL NO. SEE SHEET 1							
	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						

F

E

D

C

B

A

F

E

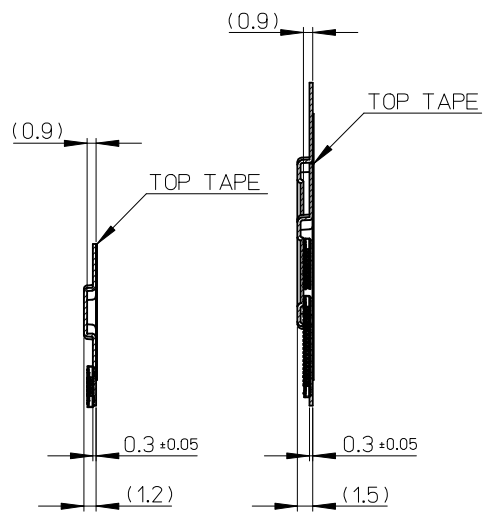
D

C

B

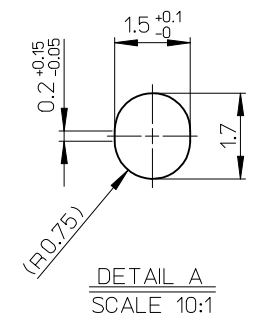
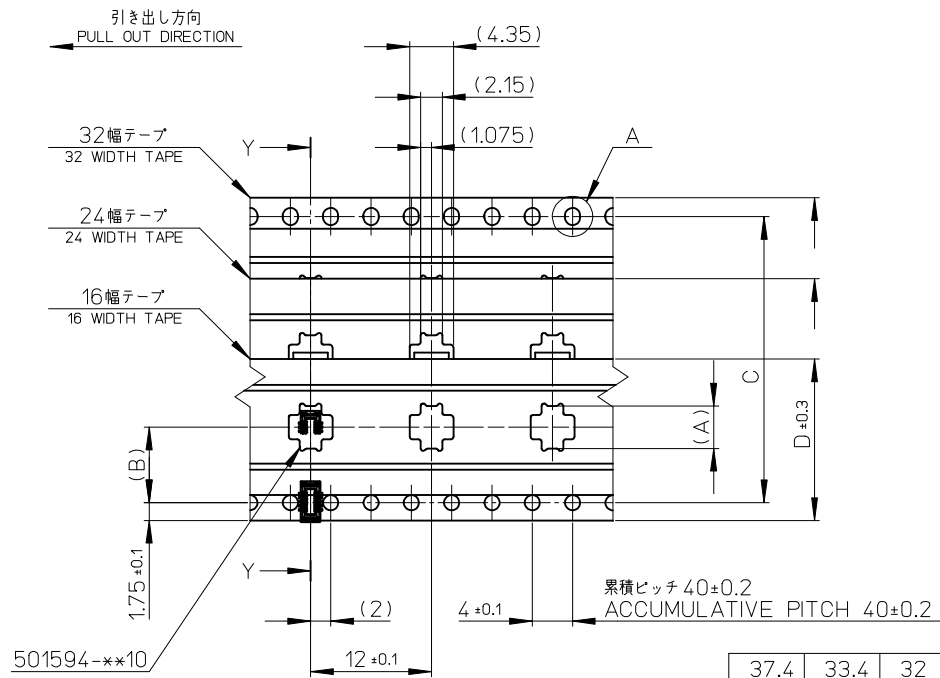
A

引き出し方向
PULL OUT DIRECTION



SECT Y-Y
(FOR 16 WIDTH TAPE)

SECT Y-Y
(FOR 24 WIDTH TAPE
AND 32 WIDTH TAPE)



37.4	33.4	32	28.4	14.2	16.21	501594-7011	70
29.4	25.4	24	—	11.5	13.01	501594-5411	54
					12.21	501594-5011	50
					11.01	501594-4411	44
					10.21	501594-4011	40
					9.01	501594-3411	34
					8.21	501594-3011	30
					7.41	501594-2611	26
					7.01	501594-2411	24
21.4	17.4	16	—	7.5	6.61	501594-2211	22
					6.21	501594-2011	20
					4.61	501594-1211	12
F	E	D	C	(B)	(A)	501594-1011	10
F	E	D	C	(B)	(A)	MATERIAL NO.	極数 CKT.

REVISED

EC NO: J2008-3370

2008/06/17

DRWK:SETO

2008/06/17

CHKD:MSASAO

2008/06/25

APPR:MSASAO

REV

DESCRIPTION

10 UNDER ± 0.2

10 OVER 30 UNDER ± 0.25

30 OVER ± 0.3

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

GENERAL TOLERANCES
(UNLESS SPECIFIED)

DIMENSION STYLE
MM ONLY

DRAWN BY
TASAKAWA

DATE
2006/07/10

CHECKED BY
MSASAO

DATE
2006/07/10

APPROVED BY
MSASAO

DATE
2006/07/10

MATERIAL NO.

SIZE
A3

SCALE

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

TITLE
0.4MM PITCH B/B CONN.
PLUG ASSY (HGT=0.9)
EMBSTP PKG

MOLEX INCORPORATED

DOCUMENT NO.
SD-501594-006

SHEET NO.
2 OF 2

501594-**-11

MODEL NO.

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