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Part Number: [5033044210](#)
Status: **Active**
Overview: [slimstack_mm016_pitch](#)
Description: 0.40mm (.016") Pitch SlimStack™ Board-to-Board Receptacle, SMT, Dual Row, Vertical, 0.70mm (.028") Stacking Height, 42 Circuits

Documents:

3D Model	Product Specification PS-503304-001 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

General

Product Family	PCB Receptacles
Series	503304
Application	Board-to-Board
Overview	slimstack_mm016_pitch
Product Name	SlimStack™

Physical

Circuits (Loaded)	42
Color - Resin	Black
Durability (mating cycles max)	30
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Mated Height (in)	0.028 In
Mated Height (mm)	0.70 mm
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	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
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Surface Mount

Electrical

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

Material Info

Reference - Drawing Numbers

Application Specification	AS-503304-001
Packaging Specification	SPK-503304-001
Product Specification	PS-503304-001, RPS-503304-001
Sales Drawing	SD-503304-001, SD-503304-002

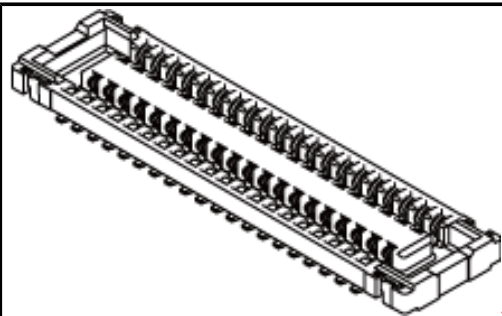


image - Reference only

Series

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

[503304Series](#)

Mates With

[503308](#) PCB Header

10 9 8 7 6 5 4 3 2 1

注記 NOTES

1. 使用材料 MATERIAL

ハウジング : 液晶ポリマー (LCP) UL94V-0 (黒)
HOUSING: LIQUID CRYSTAL POLYMER UL94V-0 (COLOR: BLACK)
ターミナル : 銅合金
TERMINAL : COPPER ALLOY

金具 : 銅合金
FITTING NAIL : COPPER ALLOY

2. メッキ仕様 PLATING

ターミナル TERMINAL

金メッキ
GOLD

下地メッキ : ニッケルメッキ
UNDER PLATING : NICKEL

※コンタクト部とテール部はニッケルメッキによって分断されている金メッキです。
DIVIDE INTO PARTS THE GOLD PLATING OF THE CONTACT
AND THE TAIL PART BY THE NICKEL PLATING.

金具 FITTING NAIL

錫メッキ
Tin PLATING

下地メッキ : ニッケルメッキ
UNDER PLATING : NICKEL

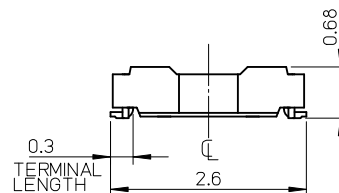
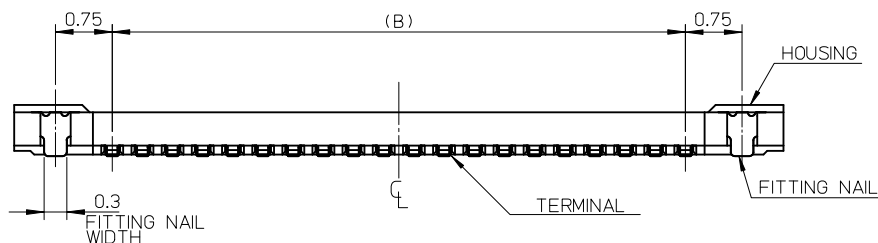
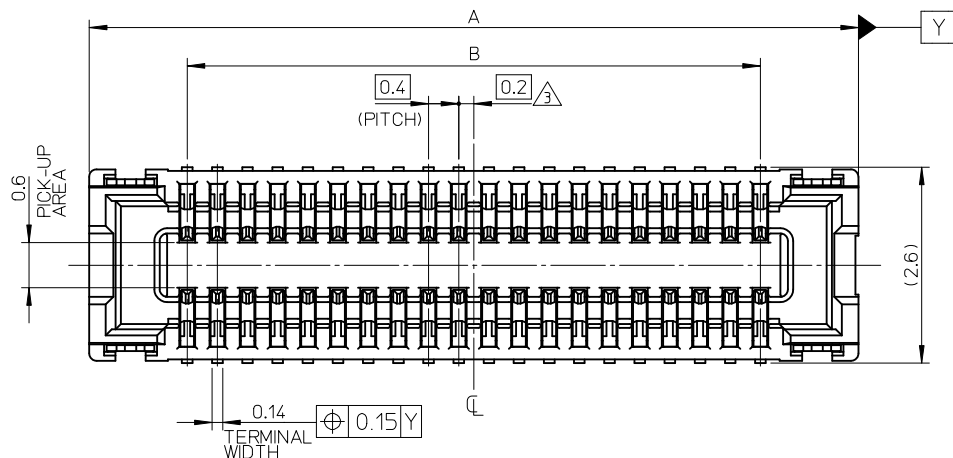
△ (全極数 / 2) = 偶数の場合に適用。
APPLY FOR (CIRCUIT/2)=EVEN.

4. 嵌合相手 : 503308 シリーズ
MATE WITH : 503308 SERIES.

5. テール平坦度は、0.08 以下

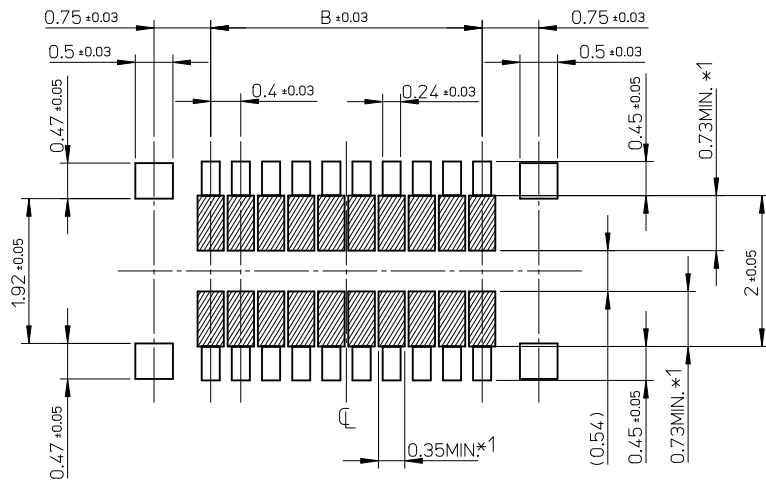
テール及び金具の平坦度は、0.1 以下
TAIL COPLANARITY TO BE 0.08 MAXIMUM.
TAIL AND FITTING NAIL COPLANARITY TO BE 0.1 MAXIMUM.

6. ELV and RoHS COMPLIANT.



11.6	14.2	503304-6010	60
9.6	12.2	503304-5010	50
8.4	11.0	503304-4410	44
8.0	10.6	503304-4210	42
7.6	10.2	503304-4010	40
5.6	8.2	503304-3010	30
4.8	7.4	503304-2610	26
3.6	6.2	503304-2010	20
3.2	5.8	503304-1810	18
2.8	5.4	503304-1610	16
2.0	4.6	503304-1210	12
B	A	EMBOSSED PACKAGE	極数 CIRCUITS
		オーダー番号 ORDER No.	
		CONNECTOR SERIES No. : 503304-**-09	

REVISED EC NO: J2010-1761 DRAWN: M. TAKAHASHI 03/2009/12/23 CHKD: THIRATA 03/2010/03/18 APPR: MSASAO 2010/03/18	DESCRIPTION REV G	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 15:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		10 UNDER	± 0.2	DRAWN BY KSASAKI	DATE 2008/04/17	TITLE 0.4 B-TO-B CONN. HGT=0.7 W=2.6 REC. ASS'Y					
		10 OVER 30 UNDER	± 0.25	CHECKED BY THIRATA	DATE 2008/04/17						
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2008/04/17	MOLEX INCORPORATED					
		ANGULAR ±1 °		MATERIAL NO. SEE CHART			DOCUMENT NO. SD-503304-001			SHEET NO. 1 OF 2	
		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						



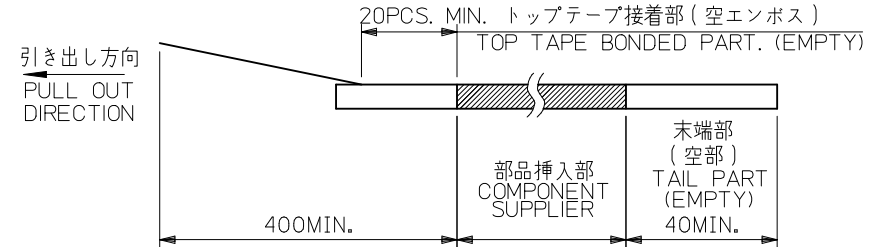
RECOMMENDED P.W. BOARD
PATTERN LAYOUT

- *1 パターン引き回し、および半田禁止エリア
(当該箇所においては、これと接する回路以外の配線を禁止する。
また、接する回路を配線する場合はレジストを施し、この部分に
半田は無きこととする。)
- *1 PROHIBITED AREA OF PATTERN WIRING AND SOLDER.
(FOR EACH AREA, THE WIRING THAT TOUCHES ON THE SOLDER
CAN BE ATTACHED, THEN COVERED WITH A FILM TO KEEP SOLDER OUT.)

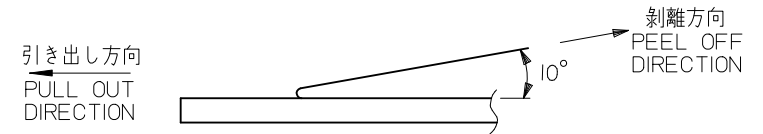
REVISED EC NO: J2010-1761 G DRAWN: TAKAHASHI 03/2009/12/23 CHKD: THIRATA 2010/03/17 APPR: MSASAO 2010/03/18	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 15:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY KSASAKI	DATE 2008/04/17	TITLE 0.4 B-TO-B CONN. HGT=0.7 W=2.6 REC. ASS'Y				
		10 OVER 30 UNDER	± 0.25	CHECKED BY THIRATA	DATE 2008/04/17					
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2008/04/17	MOLEX INCORPORATED				
		ANGULAR ±1 °		MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-503304-001		2 OF 2		
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

注記 NOTES

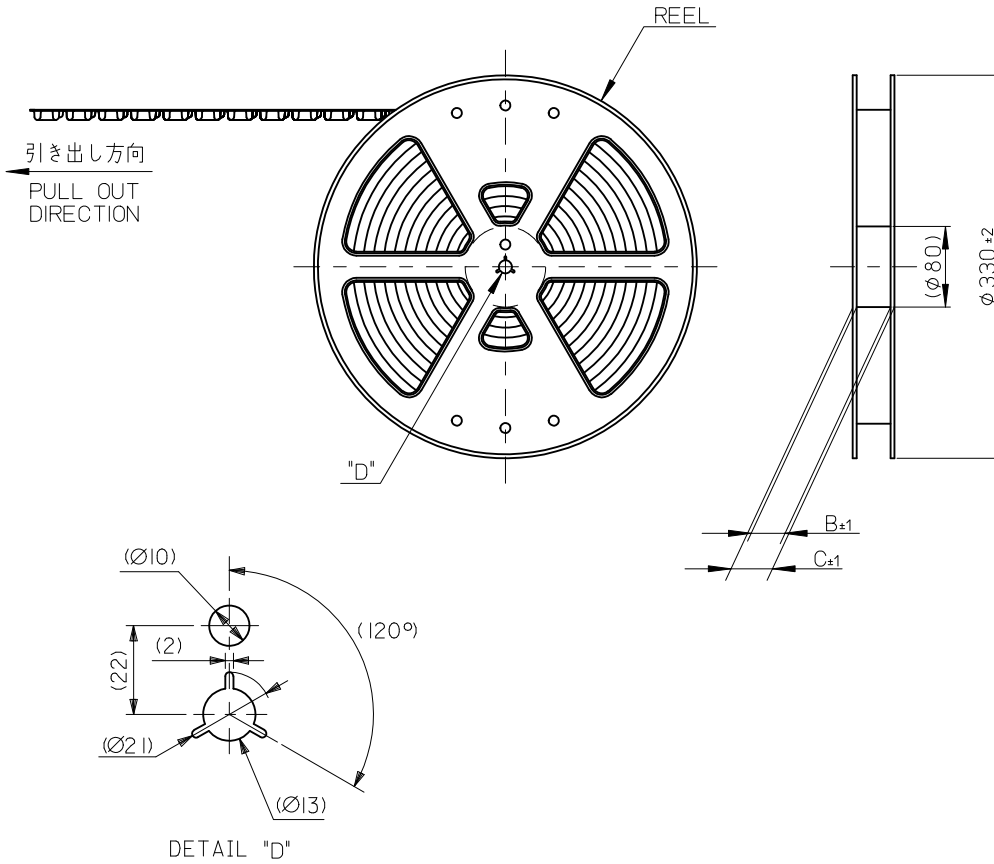
- 製品詳細寸法については製品単体図面を参照下さい。
RE DETAILED DIMENSION, SEE PRODUCT DRAWING.
- 梱包数量 : 3000 個/リール
NUMBER OF CONNECTORS : 3000PCS/REEL
- リードテープ長さ LEAD TAPE LENGTH



- トップテープの剥離強度 : 0.1N~1.3N(10gf~130gf)
(剥離方向は下図参照)
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こと。)
PEELING OFF FORCE OF TOP TAPE : 0.1N~1.3N(10gf~130gf)
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
PEEL OFF SHOULD NOT BE ALLOWED, DURING TRANSPORTION.

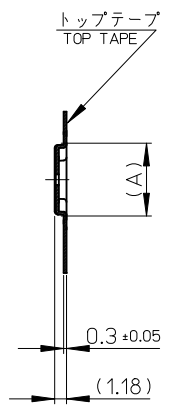


- 材料 MATERIAL
キャリアテープ (CARRIER TAPE) : ポリスチレン (POLYSTYRENE)
トップテープ (TOP TAPE) : PET, OTHER
リール (REEL) : ポリスチレン (PS) <リサイクル材を含む>
POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>
- ELV 及び RoHS適合品
ELV AND RoHS COMPLIANT

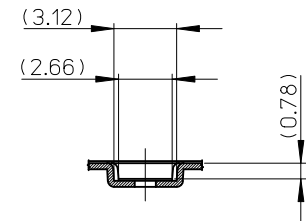
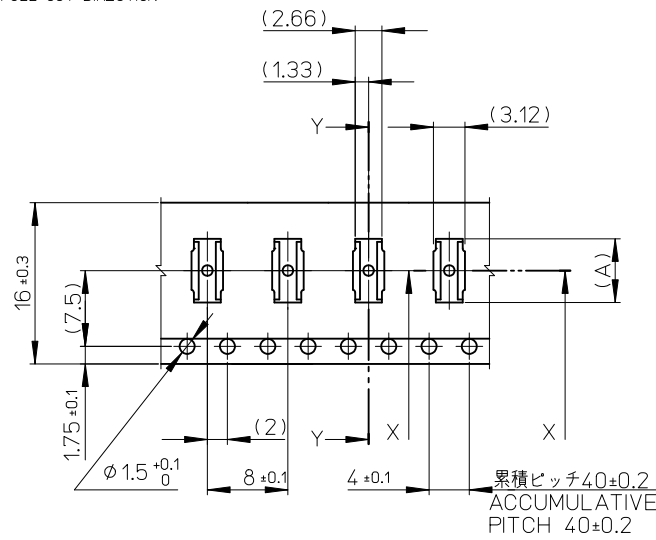


REVISED EC NO: J2010-4761 DRWN:MTAKASHI 03 2010/01/08 CHKD:THIRATA 2010/03/17 APPR:MSASAO 2010/03/18	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	MODEL NO. 503304-002		THIRD ANGLE PROJECTION			
		10 UNDER ± 0.2		DRAWN BY KSASAKI		DATE 2008/12/12		TITLE 0.4 B-TO-B CONN. HGT=0.7 REC ASSY EMBSTP PKG					
		10 OVER 30 UNDER ± 0.25		CHECKED BY THIRATA		DATE 2008/12/12							
		30 OVER ± 0.3		APPROVED BY MSASAO		DATE 2008/12/12		MOLEX INCORPORATED					
		ANGULAR ±1 °		MATERIAL NO.				DOCUMENT NO.				SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART				SD-503304-002				1 OF 3	
				SIZE A3				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

引き出し方向
PULL OUT DIRECTION



SECTION Y-Y



SECTION X-X

16mm 幅キャリアテープ
16mm WIDTH CARRIER TAPE

16	21.4	17.4	7.52	503304-2610		26
			7.12	503304-2410		24
			6.32	503304-2010		20
			5.92	503304-1810		18
			5.52	503304-1610		16
			4.72	503304-1210		12
キャリアテープ幅 CARRIER TAPE WIDTH	C	B	(A)	MATERIAL No.		CKT.
				MODEL No.	503304-**10	

REVISED EC NO: J2010-1761 DRWN:MTAKAHASHI 2010/01/08 CHKD:THIRATA 2010/03/17 APPR:MSASAO 2010/03/18	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY KSASAKI	DATE 2008/12/12	TITLE 0.4 B-TO-B CONN. HGT=0.7 REC ASSY EMBSTP PKG				
		10 OVER 30 UNDER	± 0.25	CHECKED BY THIRATA	DATE 2008/12/12					
		30 OVER	± 0.3	APPROVED BY MSASAO	DATE 2008/12/12	MOLEX MOLEX INCORPORATED				
		ANGULAR	± 1 °	MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-503304-002		2 OF 3		
		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

10 9 8 7 6 5 4 3 2 1

F

E

D

C

B

A

F

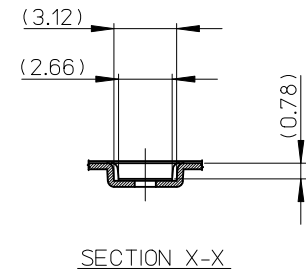
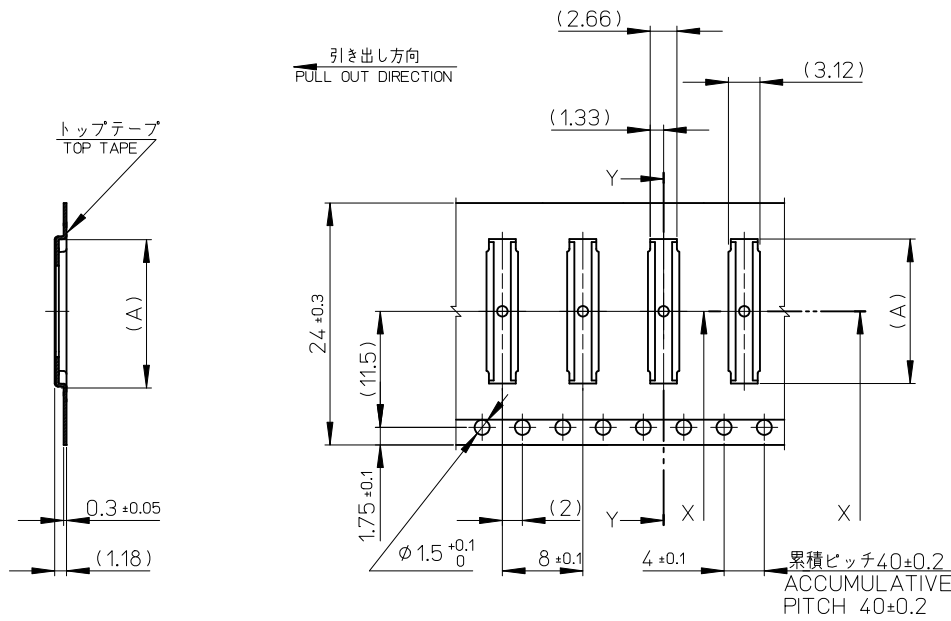
E

D

C

B

A



SECTION Y-Y

24mm 幅キャリアテープ
24mm WIDTH CARRIER TAPE

24	29.4	25.4	14.32	503304-6010		60
			12.32	503304-5010		50
			11.12	503304-4410		44
			10.72	503304-4210		42
			10.32	503304-4010		40
			8.32	503304-3010		30
キャリアテープ幅 CARRIER TAPE WIDTH	C	B	(A)	MATERIAL No.		CKT.
				MODEL No.	503304-**10	

REVISED EC NO: J2010-1761 DRWN:MTAKASHI 03/2010/01/08 CHKD:THIRATA 2010/03/17 APPR:MSASAO 2010/03/18	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		10 UNDER ±0.2		DRAWN BY DATE KSASAKI 2008/12/12		TITLE 0.4 B-TO-B CONN. HGT=0.7 REC ASSY EMBSTP PKG			
		10 OVER 30 UNDER ±0.25		CHECKED BY DATE THIRATA 2008/12/12					
		30 OVER ±0.3		APPROVED BY DATE MSASAO 2008/12/12		MOLEX MOLEX INCORPORATED			
		ANGULAR ±1 °		MATERIAL NO.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		DOCUMENT NO. SD-503304-002		SHEET NO. 3 OF 3	
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			