

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 5018643091
Status: Active
Overview: ffc_fpc_smt
Description: 0.50mm (.020") Pitch FFC-to-Board Connector, Receptacle Housing Assy, Right Angle, SMT, with Grounding terminals, 30 Circuits

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Product Specification PS-501864-004 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

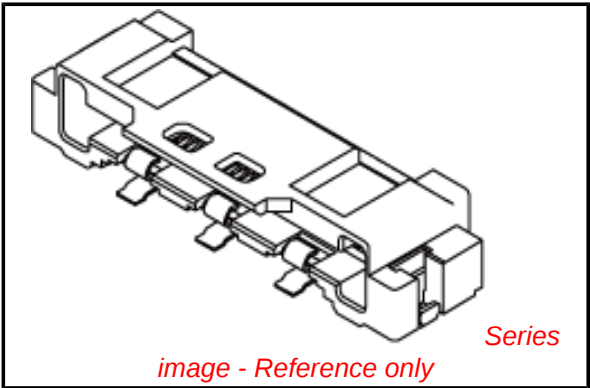
General
Product Family FFC/FPC Connectors
Series 501864
Comments with Grounding terminals
Overview ffc_fpc_smt
Product Name N/A

Physical
Circuits (Loaded) 30
Color - Resin Black
Contact Position Bottom
Durability (mating cycles max) 20
Entry Angle 90° Angle
Mated Height (in) 0.191 In
Mated Height (mm) 4.85 mm
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Gold
Number of Rows 1
Orientation Right Angle
PCB Locator Yes
PCB Retention Yes
Packaging Type Embossed Tape on Reel
Pitch - Mating Interface (in) 0.020 In
Pitch - Mating Interface (mm) 0.50 mm
Polarized to PCB Yes
Stackable No
Temperature Range - Operating -40°C to +85°C
Termination Interface: Style Surface Mount
Wire/Cable Type FFC only

Electrical
Current - Maximum per Contact 0.5A
Voltage - Maximum 50V AC (RMS)/DC

Material Info

Reference - Drawing Numbers
Packaging Specification SPK-501864-001
Product Specification PS-501864-004, RPS-501864-001, RPS-501864-004
Sales Drawing SD-501864-008, SD-501864-009



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

China RoHS

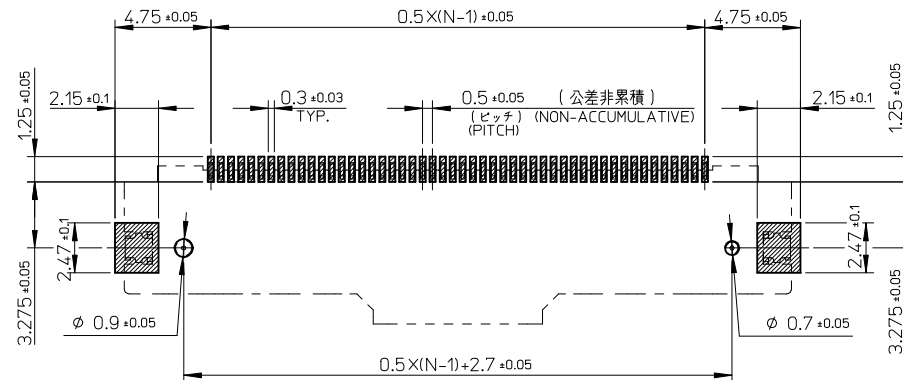
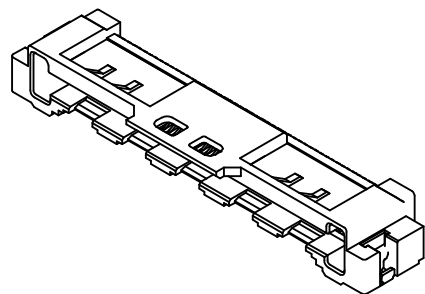
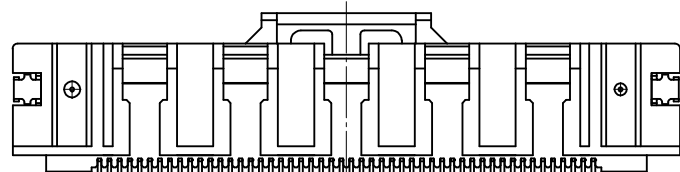
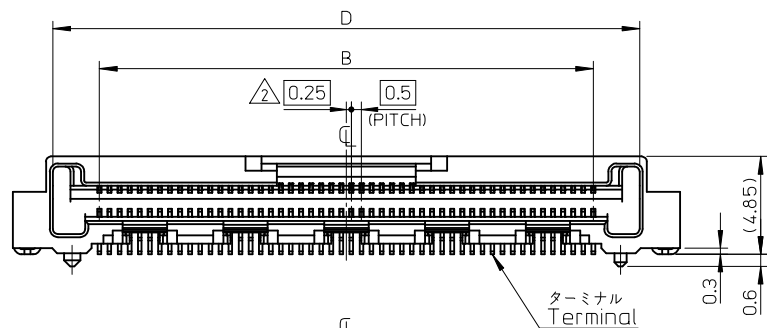
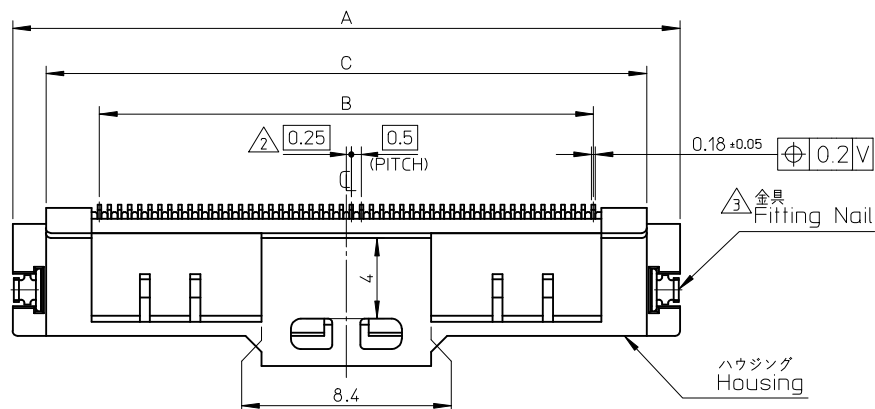


Need more information on product environmental compliance?
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)
Please visit the [Contact Us](#) section for any non-product compliance questions.

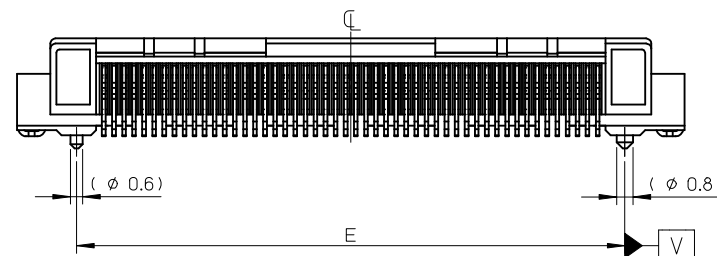
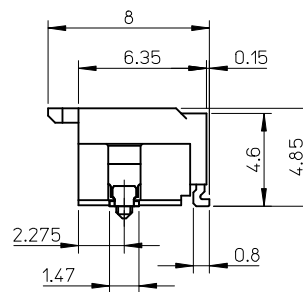
Search Parts in this Series
501864Series

Use With
501783-3009 Plug Jacket . 501784-3008 Plug Jacket Cover

10 9 8 7 6 5 4 3 2 1



参考基板レイアウト
P.C BOARD PATTERN
DIMENSION (REF.)
(マウント面)
(MOUNTING SIDE)



17.2	19.1	19.8	14.5	23.1	501864-3092	30
E	D	C	B	A	EMBOSSD TAPE PKG. ORDER No. オーダー番号	極数 CIRCUIT

CONNECTOR SERIES No. 501786-xx41

REVISED EC NO: A	DESCRIPTION DRWN: N. I. SHI CHKD: M. MATSUURA APPR: K. MORIKAWA	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE //	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	M. TAKASAKI	08/12/05	TITLE 0.5 FFC TO BOARD CONN REC. HSG ASSY(RA)				
		10 OVER 30 UNDER	± 0.25	M. HAYASHI	08/12/05					
		30 OVER	± 0.3	N. UKITA	08/12/05	MOLEX MOLEX INCORPORATED				
		ANGULAR ±1 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-501864-012		1 OF 2		
REV		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

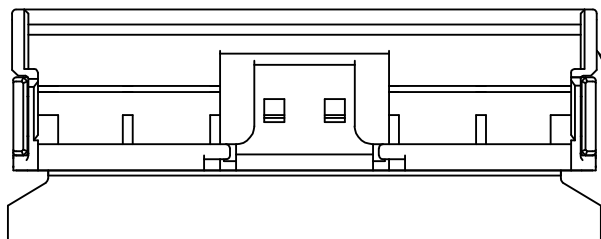
E

D

C

B

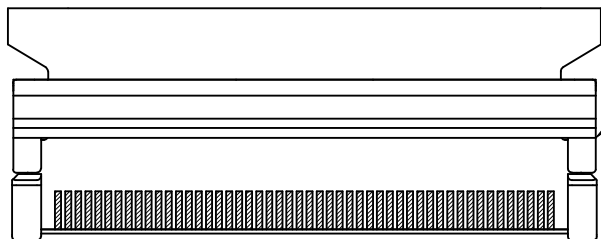
A



4 ジャケット
JACKET



5 ジャケットカバー
JACKET COVER



$0.5 \times (N-1) + 5 \pm 0.2$

$0.5 \times (N+1) \pm 0.05$

± 0.03

R0.2 ± 0.05

R0.2 ± 0.05

R0.25

7.7 ± 1

(STIFFENER BOARD)

4.45 ± 0.07

1.9 ± 0.3

0.5 ± 0.03

1.3 ± 0.06

0.5 ± 0.03

0.3 ± 0.03

0.5 × (N-1) ± 0.06

0.5 × (N-1) + 2.6 ± 0.04

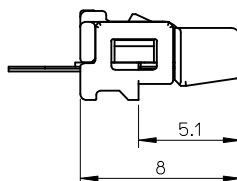
1.3 ± 0.06

8 ± 0.07

9.2 ± 0.3

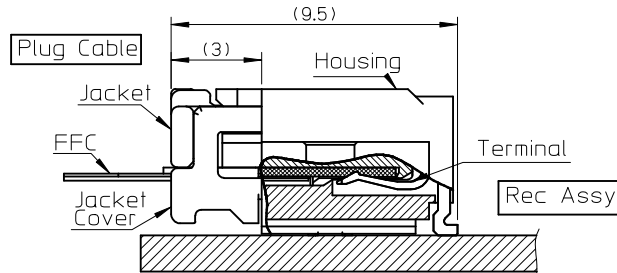
コネクタ接続部
CONTACT AREA

適合FFC寸法
APPLICABLE FFC
RECOMMENDED DIMENSION
(仕上がり厚さ: 接続部 0.3 ± 0.03)
(THICKNESS : CONTACT AREA 0.3 ± 0.03)

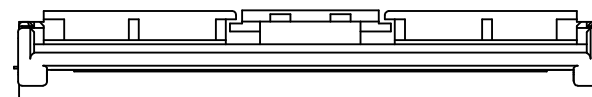


5.1

8



嵌合断面図
MATED CONNECTOR SECTION



注記 1. 使用材料
NOTE MATERIAL

ハウジング
HOUSING

: 液晶ポリマー (LCP)・ガラス充填.
UL94V-0 色: 黒色
LIQUID CRYSTAL POLYMER(LCP)
GLASS FILLED UL94V-0 COLOR: BLACK
: 銅合金 (τ=0.18)
COPPER ALLOY (τ=0.18)

ターミナル
TERMINAL

メッキ
PLATING

コンタクト
CONTACT AREA

ソルダーテール
TAIL AREA

ニッケル下地 金メッキ
GOLD OVER NICKEL PLATING
ニッケル下地 金メッキ
GOLD OVER NICKEL PLATING

金具
FITTING NAIL

: 銅合金 (τ=0.25)
ニッケル下地 錫メッキ
COPPER ALLOY (τ=0.25)
TIN OVER NICKEL PLATING.

2 N=偶数に適用 (N: 極数)
APPLY FOR N=EVEN (CIRCUIT)

3 パターン剥離止め用金具
FITTING NAIL FOR PREVENTION OF PEELING OF P.C.B PATTERN.

4 適合ジャケット: 501783-**09
製品詳細寸法はSD-501783-004を参照下さい。
APPLICABLE JACKET: 501783-**09. RE DETAILED DIMENSION. SEE SD-501783-004.

5 適合ジャケットカバー: 501784-**09
製品詳細寸法はSD-501784-004を参照下さい。
APPLICABLE JACKET: 501784-**09. RE DETAILED DIMENSION. SEE SD-501784-004.

REVISED EC NO: DRAWN BY CHKD:WATSURA APPR:KMOIKAWA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE —//—	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		10 UNDER	± 0.2	DRAWN BY M. TAKASAKI	DATE 08/12/05	TITLE 0.5 FFC TO BOARD CONN REC. HSG ASSY(RA)			
		10 OVER 30 UNDER	± 0.25	CHECKED BY M. HAYASHI	DATE 08/12/05				
		30 OVER	± 0.3	APPROVED BY N. UKITA	DATE 08/12/05				
		ANGULAR ±1 °		MATERIAL NO. SEE SHEET 1		DOCUMENT NO. SD-501864-012		SHEET NO. 2 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					
	A	REV	MOLEX INCORPORATED						

10

9

8

7

6

5

4

3

2

1

F

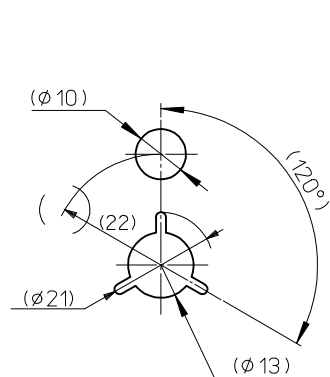
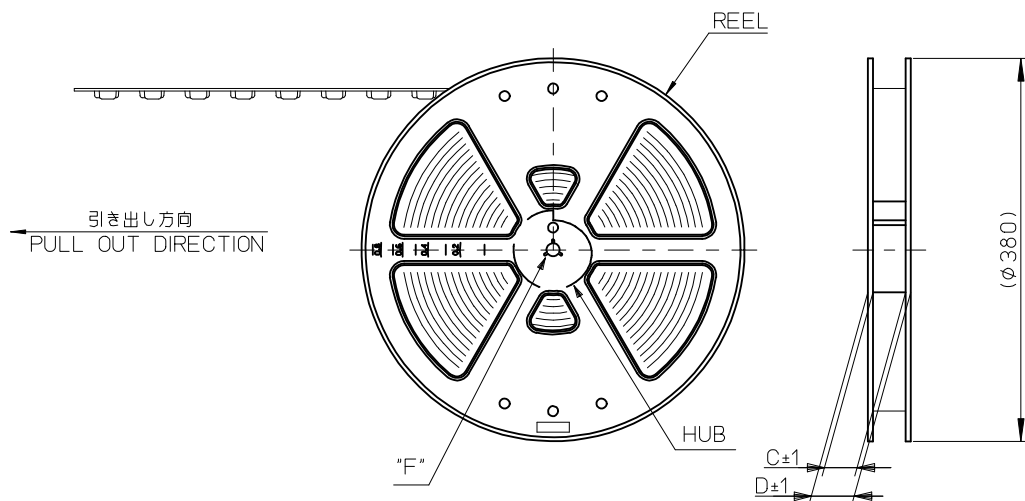
E

D

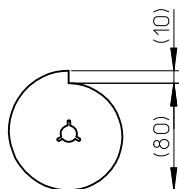
C

B

A

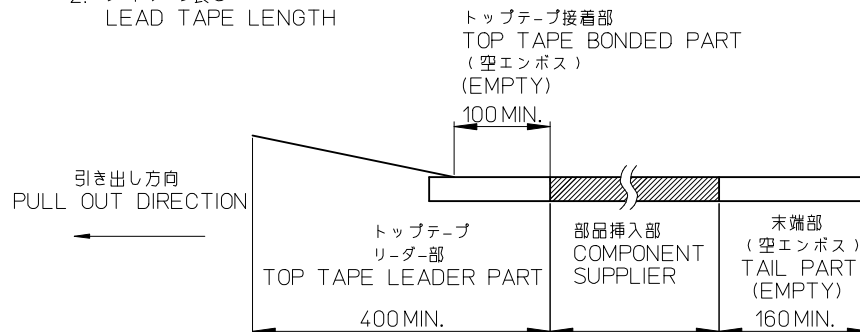


DETAIL "F"



NOTES

- 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



- 製品詳細寸法については図面 SD-501864-012を参照下さい。
RE DETAILED DIMENSION, SEE SD-501864-012.
- 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(POLYSTYRENE)

501864-**-92

MODEL NO.

RELEASED EC NO: J2009-1485 DRAWN: M. TAKASAKI CHKD: M. HAYASHI APPR: N. UKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	±0.2	DRAWN BY M. TAKASAKI	DATE 08/12/05	TITLE EMBSTP PKG FOR 0.5 FFC TO BOARD CONN RA TYPE -LEAD FREE- MOLEX INCORPORATED				
		10 OVER 30 UNDER	±0.25	CHECKED BY M. HAYASHI	DATE 08/12/05					
		30 OVER	±0.3	APPROVED BY N. UKITA	DATE 08/12/05					
		ANGULAR	±1 °	MATERIAL NO. 501864-**-92		DOCUMENT NO. SD-501864-013		SHEET NO. 1 OF 2		
0	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

9

8

7

6

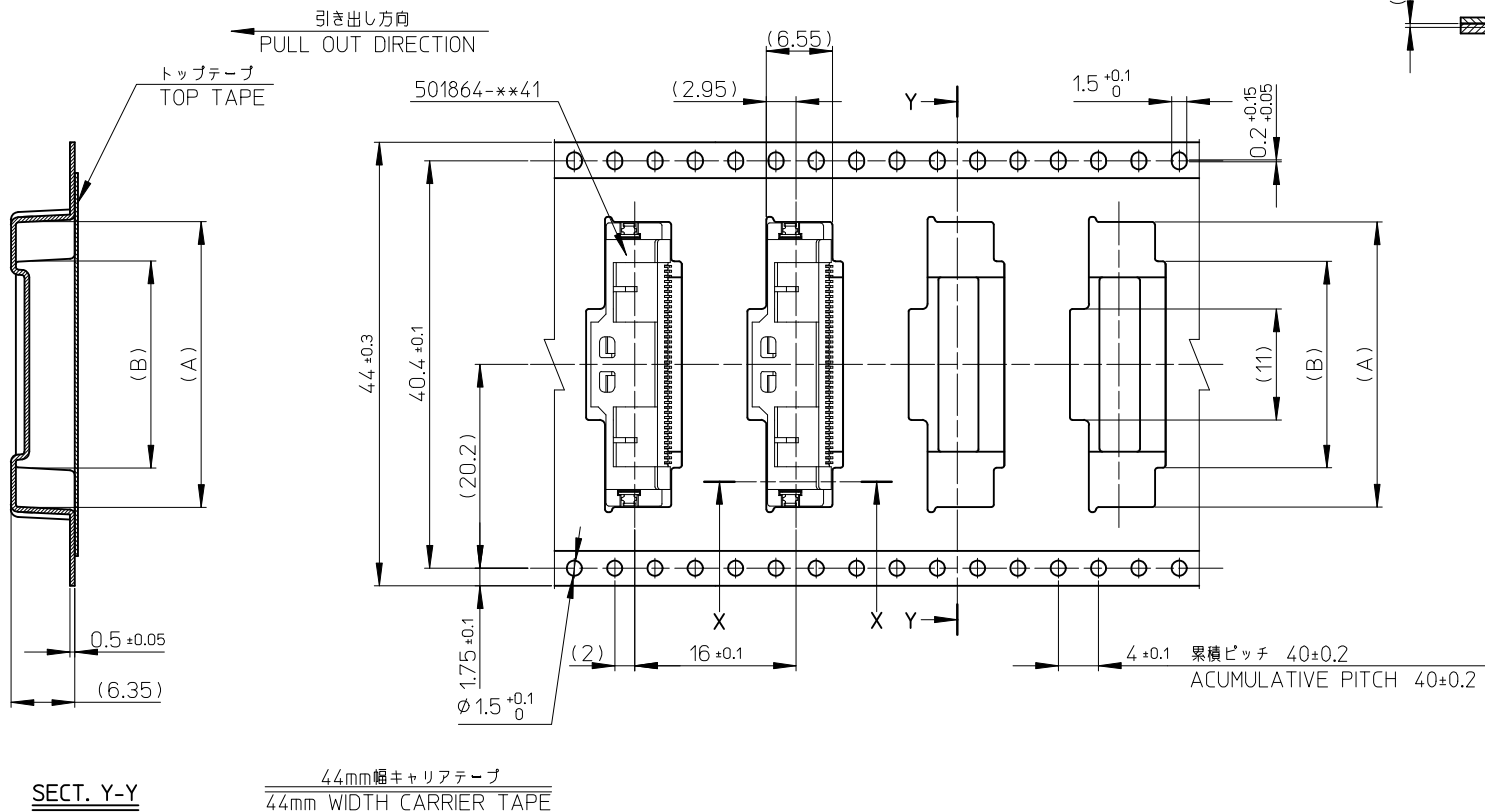
5

4

3

2

EN-02JA(021)



44	49.4	45.4	15.5	23.3	501864-3092	30
キャリアテープ幅 CARRIER TAPE WIDTH	D	C	B	A	製品番号 MATERIAL NO.	極数 CKT

SEE SHEET 1 OF 2 EC NO.: J2009-1485 DRWN:MTAKASAKI 2008/12/08 CHKD:HAYASHI 2008/12/09 APPR:NUKITA 2008/12/09	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		10 UNDER	± 0.2	DRAWN BY M. TAKASAKI	DATE 08/12/05	TITLE EMBSTP PKG FOR 0.5 FFC TO BOARD CONN RA TYPE -LEAD FREE-			
		10 OVER 30 UNDER	± 0.25	CHECKED BY M. HAYASHI	DATE 08/12/05				
		30 OVER	± 0.3	APPROVED BY N. UKITA	DATE 08/12/05	MOLEX MOLEX INCORPORATED			
		ANGULAR ±1 °		MATERIAL NO. 501864-**92		DOCUMENT NO. SD-501864-013		SHEET NO. 2 OF 2	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					