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Part Number: 0545501771
Status: Active
Overview: ffc_fpc_smt
Description: 0.50mm (.020") Pitch FFC/FPC Connector, 1.20mm (.047") Height, Right Angle, SMT, ZIF, Top Contact Style, 17 Circuits, Gold (Au) Contact Plating

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Product Specification PS-54550-012 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

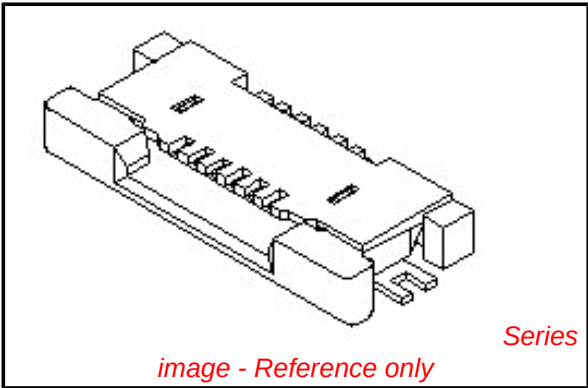
General	
Product Family	FFC/FPC Connectors
Series	54550
Overview	ffc_fpc_smt
Product Name	N/A
Physical	
Circuits (Loaded)	17
Contact Position	Top
Durability (mating cycles max)	20
Entry Angle	90° Angle
Mated Height (in)	0.047 In
Mated Height (mm)	1.20 mm
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	1
Orientation	Right Angle
PCB Locator	No
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	-20°C to +85°C
Termination Interface: Style	Surface Mount
Wire/Cable Type	FFC/FPC

Electrical	
Current - Maximum per Contact	0.5A
Voltage - Maximum	50V

Material Info

Reference - Drawing Numbers

Packaging Specification	SPK-54550-056
Product Specification	PS-54550-012, RPS-54550-078, RPS-54550-080, RPS-54550-083, RPS-54550-088, RPS-54550-089, RPS-54550-090
Sales Drawing	SD-54550-042, SD-54550-043



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

China RoHS



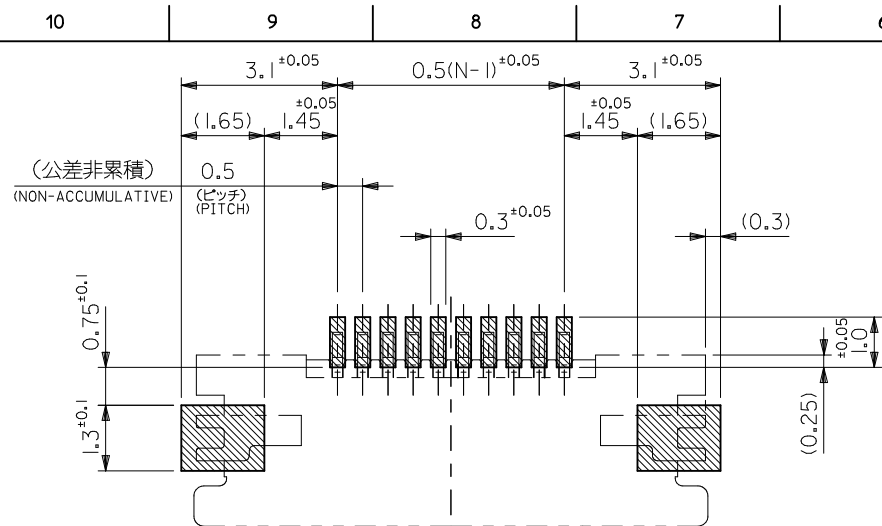
Need more information on product environmental compliance?

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
54550Series

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参考基板レイアウト
RECOMMENDED P.C.BOARD
PATTERN DIMENSION (REF.)

コネクタ位置
CONNECTOR POSITION

注記 NOTES

1. 使用材料 MATERIAL

ハウジング : LCP, UL94V-0
HOUSING

アクチュエータ : PPS, UL94V-0
ACTUATOR

ターミナル : リン青銅
TERMINAL PHOSPHOR BRONZE

メッキ : 接点部 : 金メッキ
PLATING CONTACT PORTION : GOLD PLATING

: 半田付部 : 錫メッキ
SOLDERING PORTION : TIN PLATING

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

金具 : リン青銅、ニッケル下地 錫メッキ
FITTING NAIL PHOSPHOR BRONZE, TIN OVER NICKEL PLATING

2. エンボステープ梱包時は、アクチュエータがロックした状態とする。
IN THE PACKAGE, ACTUATOR OF PART NO.54550-**29 SHOULD BE LOCKED.

△ ソルダータール半田付け面のズレ量、及び金具半田付け面のズレ量は、基準面 Z
に対し上方向 0 MAX.、下方向 0.15 MAX. とし

相互のバラツキ量は 0.1 MAX. とする。

MISALIGNMENT OF SOLDER TAILS AND FITTING NAILS FROM Z
UPPER DIRECTION: 0 MAX., LOWER DIRECTION: 0.15 MAX.
OFFSET BETWEEN UPPER AND LOWER 0.1 MAX.

△ 偶数極に適用。
APPLY FOR EVEN CIRCUIT.

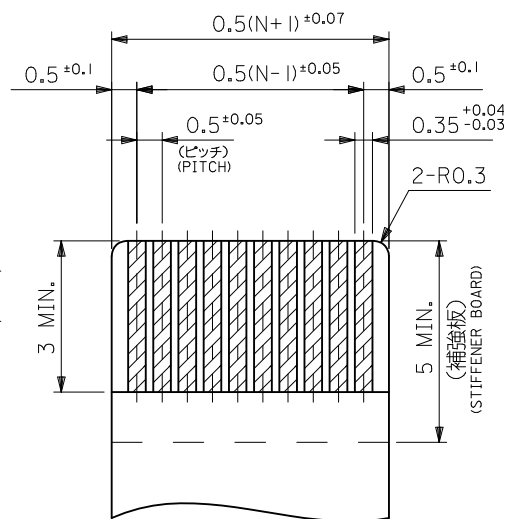
△ パターンはくり止め用金具
FITTING NAIL FOR PREVENTION OF PEELING
OF P.C.B. PATTERN.

△ ゲート部は、左右どちらか一方にあるものとする。
A GATE PART -- RIGHT AND LEFT -- IT SHALL BE IN EITHER.

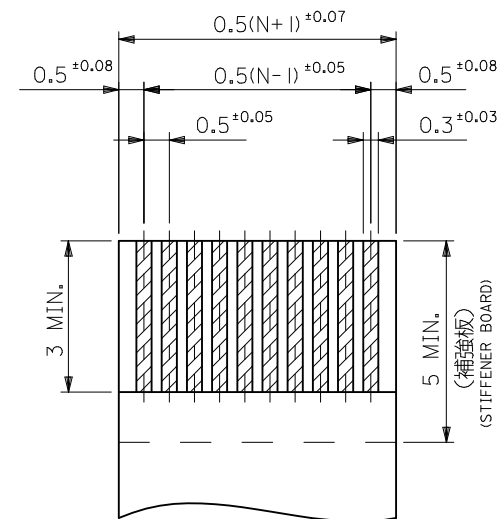
7. 本製品は 54550-**27 の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 54550-**27.

8. N: 極数 N: CIRCUIT.

9. ELV 及び RoHS 適合品 / ELV AND RoHS COMPLIANT.



適合 FPC 推奨寸法
APPLICABLE FPC
RECOMMENDED DIMENSION
(仕上がり厚さ: 表参照)
(THICKNESS: SEE CHART)



適合 FFC 推奨寸法
APPLICABLE FFC
RECOMMENDED DIMENSION
(仕上がり厚さ: 表参照)
(THICKNESS: SEE CHART)

FPC/FFC について:

打ち抜き方向は導体側から補強板側を推奨します。

導体部については軟銅箔 35 μm または 50 μm を推奨します。

ABOUT FPC/FFC

RECOMMENDED PUNCHER DIRECTION : FROM CONDUCTOR SIDE TO STIFFENER FILM SIDE.

RECOMMENDED CONDUCTOR SPEC :

THICKNESS OF SOFT COPPER FOIL : 35 MICROMETER OR 50 MICROMETER.

FPC について:

補強フィルム材質はポリイミドを推奨します。ベースフィルムは 25 μm を推奨します。

接着剤は熱硬化接着剤を推奨します。

尚、接着剤の接点部への付着は導通不良の原因になりますので、染み出しが無い様、お願い致します。

ABOUT FPC

RECOMMENDED MATERIAL/THICKNESS.

STIFFENER FILM : POLYIMIDE

BASE FILM THICKNESS : 25 μm

BONDING AGENT : THERMOSETTING BONDING AGENT

PLEASE PUT APPROPRIATE AMOUNT OF ADHESIVE ON THE CONTACT
AREA BECAUSE THE EXTRA ADHESIVE MAY CAUSE THE DEFECT IN
ELECTRICAL CONTINUITY.

REVISED	EC NO. J2010-1202	2009/12/11 DRWN: TONO CHKD: HSHIMOMIYAMA APPR: KIMORI KAWA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				10 UNDER	± 0.2	DRAWN BY M. NINOMIYA	DATE 2004/02/12	TITLE 0.5 FPC CONN. HSG ASSY FOR SMT RA U/CONTACT			
				10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE 2004/02/12				
				30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2004/02/12	MOLEX INCORPORATED			
				ANGULAR	± 3 °	MATERIAL NO. SEE SHEET 1					
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							
M			REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

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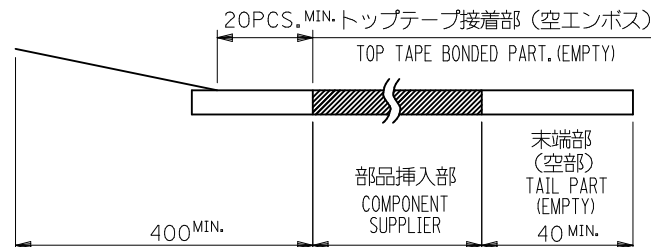
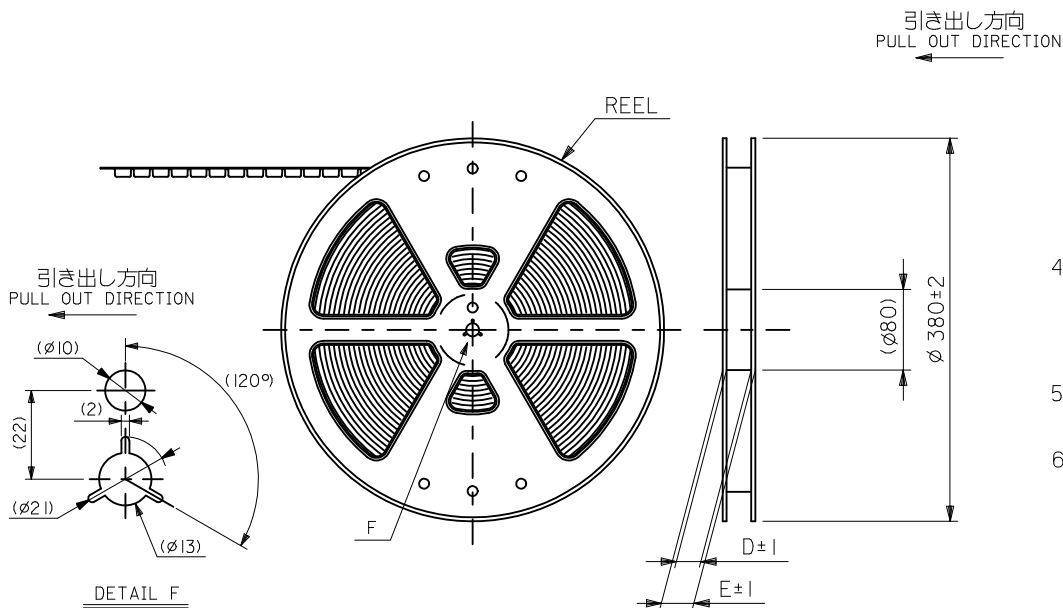
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NOTES

- 製品詳細寸法については図面 SD-54550-042 を参照下さい。
RE DETAILED DIMENSION, SEE SD-54550-042.
- 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



- 材料 (MATERIAL)
キャリアテープ (CARRIER TAPE) : ポリプロピレン (POLYPROPYLENE)
トップテープ (TOPTAPE) : PET , PE , PEF
リール (REEL) : ポリスチレン (P.S) <リサイクル材を含む>
POLYSTYRENE (P.S) <RECYCLE MATERIAL CONTAINED>
- 本製品は 54550-**9I の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 54550-**9I.
- ELV 及び RoHS 適合品 / ELV AND RoHS COMPLIANT.

REVISED EC NO: J2010-1202 DRWN: TONO CHKD: SHIMOMIYAMA APPR: KMORI KAWA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		10 UNDER	±0.2	DRAWN BY M. NINOMIYA	DATE 2004/02/12	TITLE EMBSTP PKG FOR 0.5 FPC CONN ZIF UPR CONT			
		10 OVER 30 UNDER	±0.25	CHECKED BY K. TOJO	DATE 2004/02/12				
		30 OVER	±0.3	APPROVED BY M. SASAO	DATE 2004/02/12	 MOLEX INCORPORATED			
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.			SHEET NO.
				SEE SHEET 1 OR 2		SD-54550-043			1 OF 3
L	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					

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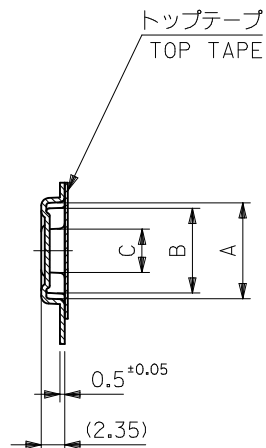
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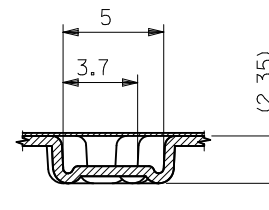
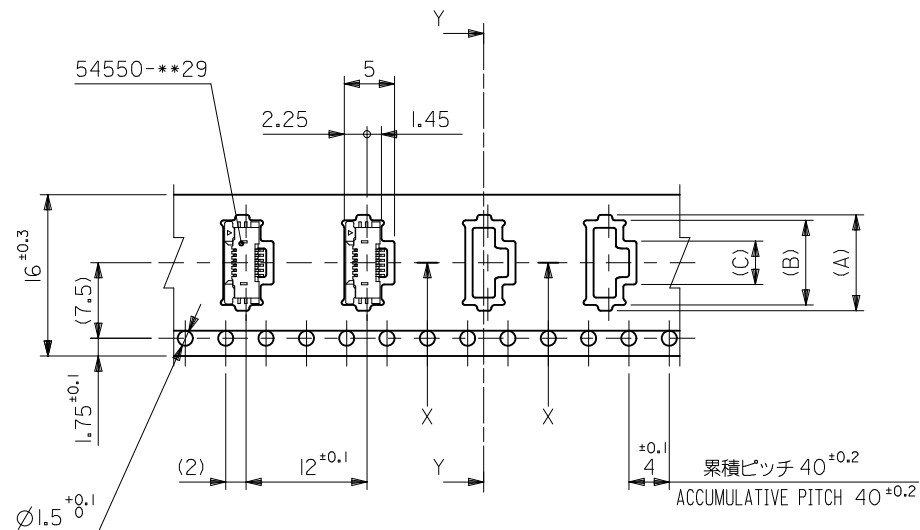
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10 9 8 7 6 5 4 3 2 1

引き出し方向
PULL OUT DIRECTION



SECT. Y-Y



SECT. X-X

16mm幅キャリアテープ
16mm WIDTH CARRIER TAPE

16	21.4	17.4	4.3	8.4	9.5	54550-0671	6
			3.8	7.9	9	54550-0571	5
			3.3	7.4	8.5	54550-0471	4
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	(C)	(B)	(A)	製品番号 MATERIAL No.	極数 Ckt

REVISED EC NO: J2010-1202 2009/12/11 DRWN: TONO 2009/12/11 CHKD: SHIMOMIYAMA 2009/12/11 APPR: KMORI KAWA 2009/12/14	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY M. NINOMIYA	DATE 2004/02/12	TITLE EMBSTP PKG FOR 0.5 FPC CONN ZIF UPR CONT				
		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE 2004/02/12					
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2004/02/12	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-54550-043			2 OF 3	
	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

F

E

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C

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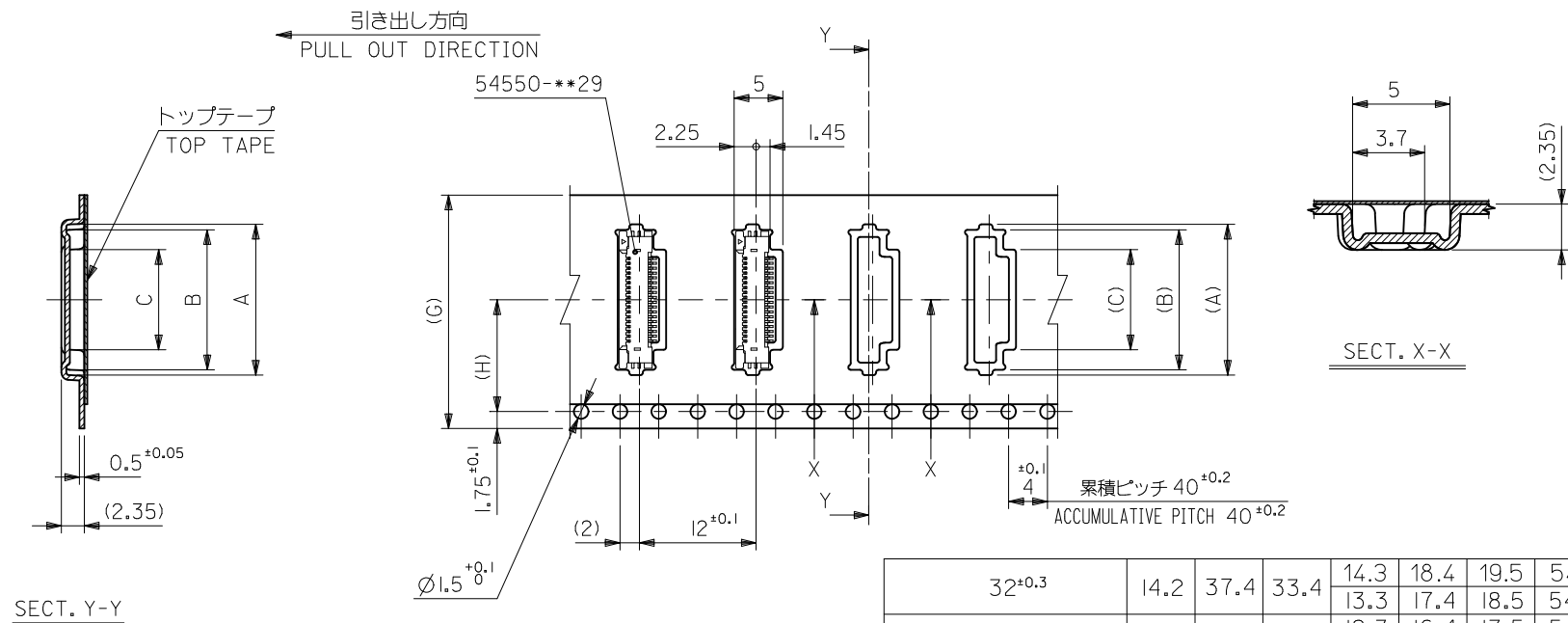
E

D

C

B

A



32 ^{+0.3}	14.2	37.4	33.4	14.3	18.4	19.5	54550-2671	26
24 ^{+0.3}	11.5	29.4	25.4	13.3	17.4	18.5	54550-2471	24
				12.3	16.4	17.5	54550-2271	22
				11.8	15.9	17	54550-2171	21
				11.3	15.4	16.5	54550-2071	20
				10.8	14.9	16	54550-1971	19
				10.3	14.4	15.5	54550-1871	18
				9.8	13.9	15	54550-1771	17
				9.3	13.4	14.5	54550-1671	16
				8.3	12.4	13.5	54550-1471	14
				7.8	11.9	13	54550-1371	13
				7.3	11.4	12.5	54550-1271	12
				6.8	10.9	12	54550-1171	11
				6.3	10.4	11.5	54550-1071	10
				5.8	9.9	11	54550-0971	9
				5.3	9.4	10.5	54550-0871	8
				4.8	8.9	10	54550-0771	7
G キャリアテープ幅 CARRIER TAPE WIDTH	H	E	D	(C)	(B)	(A)	製品番号 MATERIAL No.	極数 Ck+

REVISED EC NO: J2010-1202 DRWN: TONO 2009/12/11 CHKD: SHIMOMIYAMA 2009/12/11 APPR: KMORI KAWA 2009/12/14	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
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		10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE 2004/02/12					
		30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2004/02/12	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		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						

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9