

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0545502171

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, 21 Circuits, Gold (Au) Contact Plating

Documents:

3D Model

Drawing (PDF)

Product Specification PS-54550-012 (PDF)

RoHS Certificate of Compliance (PDF)

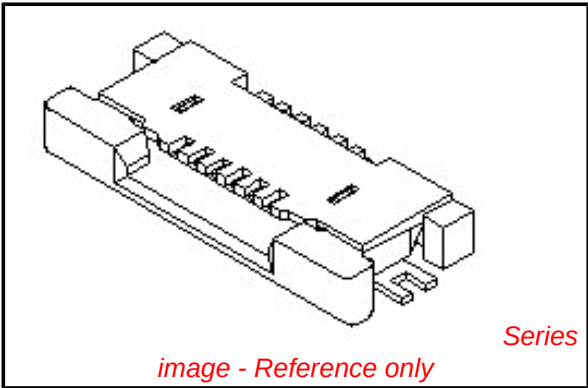
General	
Product Family	FFC/FPC Connectors
Series	54550
Overview	ffc_fpc_smt
Product Name	N/A
Physical	
Circuits (Loaded)	21
Contact Position	Top
Durability (mating cycles max)	20
Entry Angle	90° Angle
Mated Height (in)	0.047 In
Mated Height (mm)	1.20 mm
Material - Metal	Phosphor Bronze
Material - Plating 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

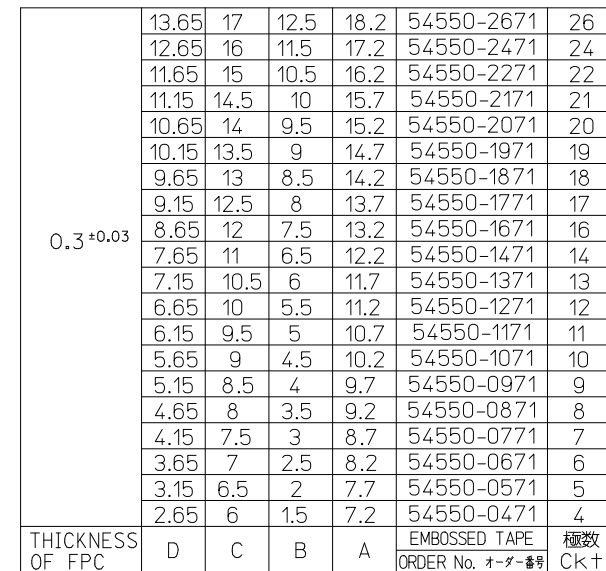
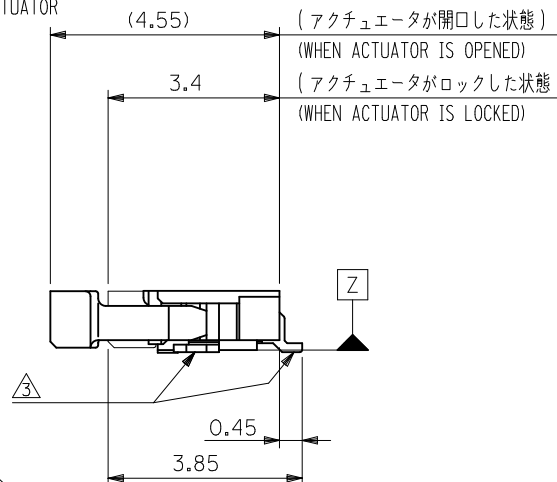
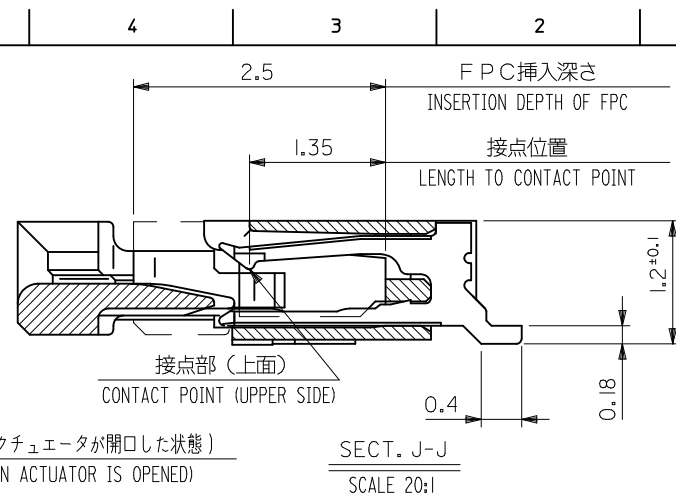
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

54550Series

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



CONNECTOR SERIES NO. 54550-**-29

SCALE 10:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
---------------	------------------------	---------------------------

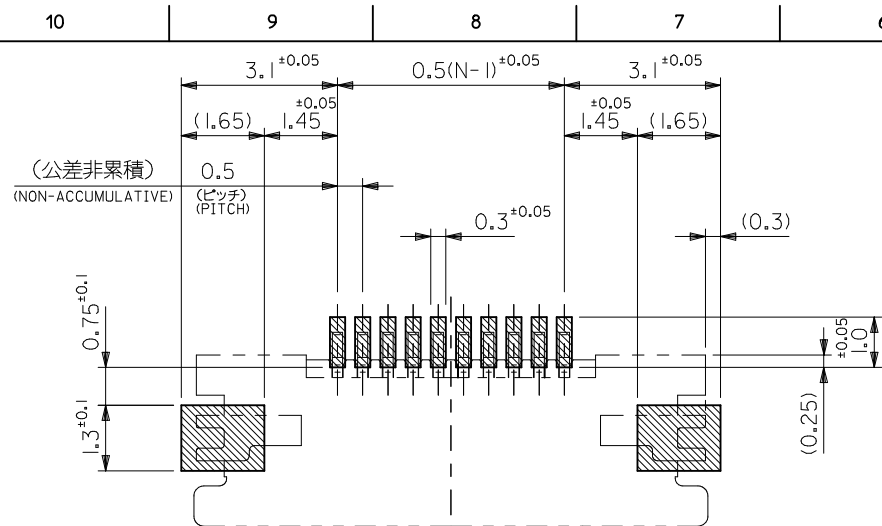
0.5 FPC CONN. HSG ASSY
FOR SMT RA U/CONTACT

MOLEX INCORPORATED

DOCUMENT NO. SD-54550-042	SHEET NO. 1 OF 2
------------------------------	---------------------

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

REVISED	EC NO: J2010-1202	DRAWN: TONO CHKD: HISHIYOMAWA APPR: KIMORI KAWA	2009/12/11 2009/12/11 2009/12/14	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	DRAWING FILE NO. 01000-0025 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.					
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-54550-042		1 OF 2	
					REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



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.

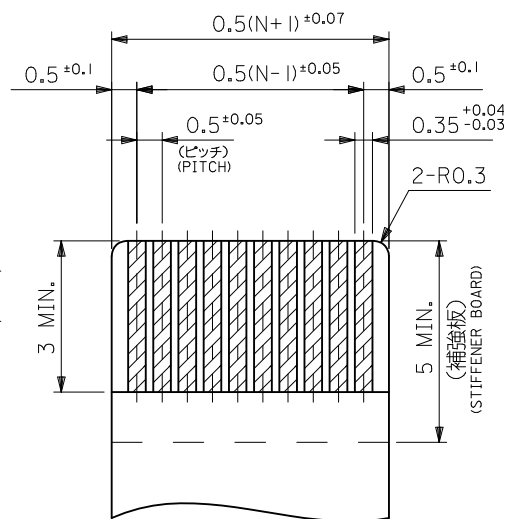
△パターンはくり止め用金具
FITTING NAIL FOR PREVENTION OF PEELING
OF P.C.B. PATTERN.

△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.

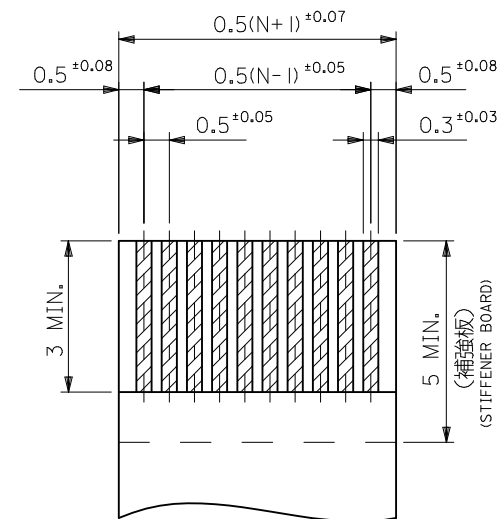
7. 本製品は 54550-**27 の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 54550-**27.

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	DRWN: TONO 2009/12/11	CHKD: HSHIMOMIYAMA 2009/12/11	APPR: KIMORI 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 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					
					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					

10

9

8

7

6

5

4

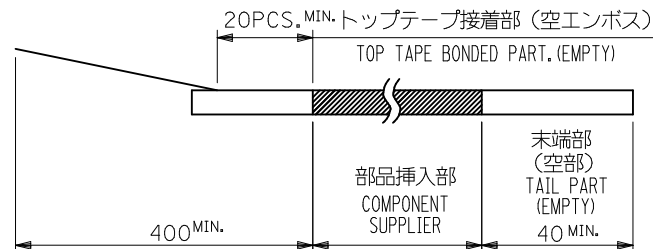
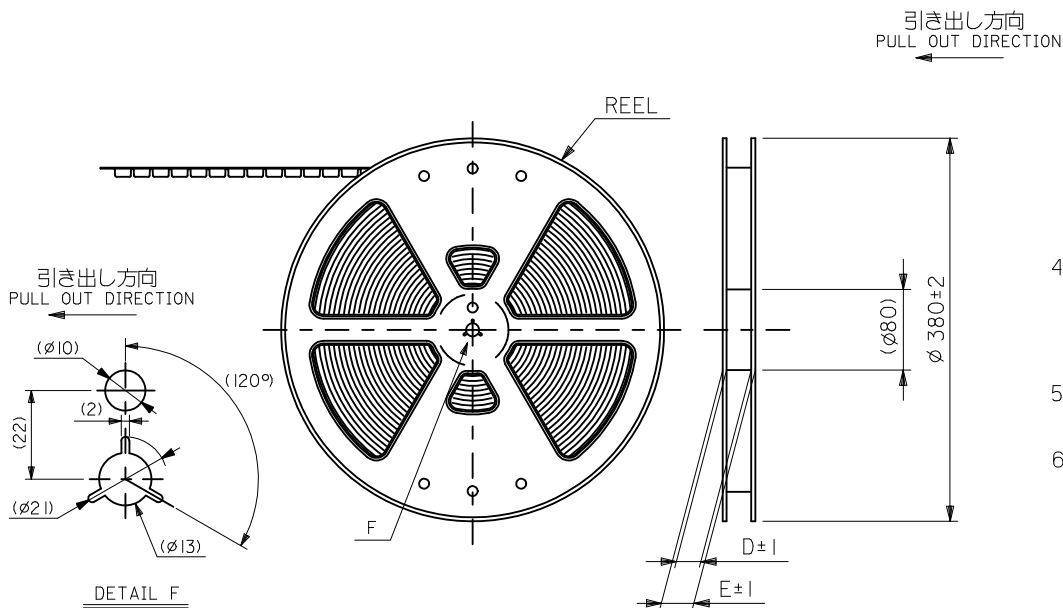
3

2

1

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 (TOP TAPE) : 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: SHIMIZU APPR: KAWAKAWA	DESCRIPTION REV	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.
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1 OR 2		SD-54550-043			1 OF 3
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)

F

E

D

C

B

A

F

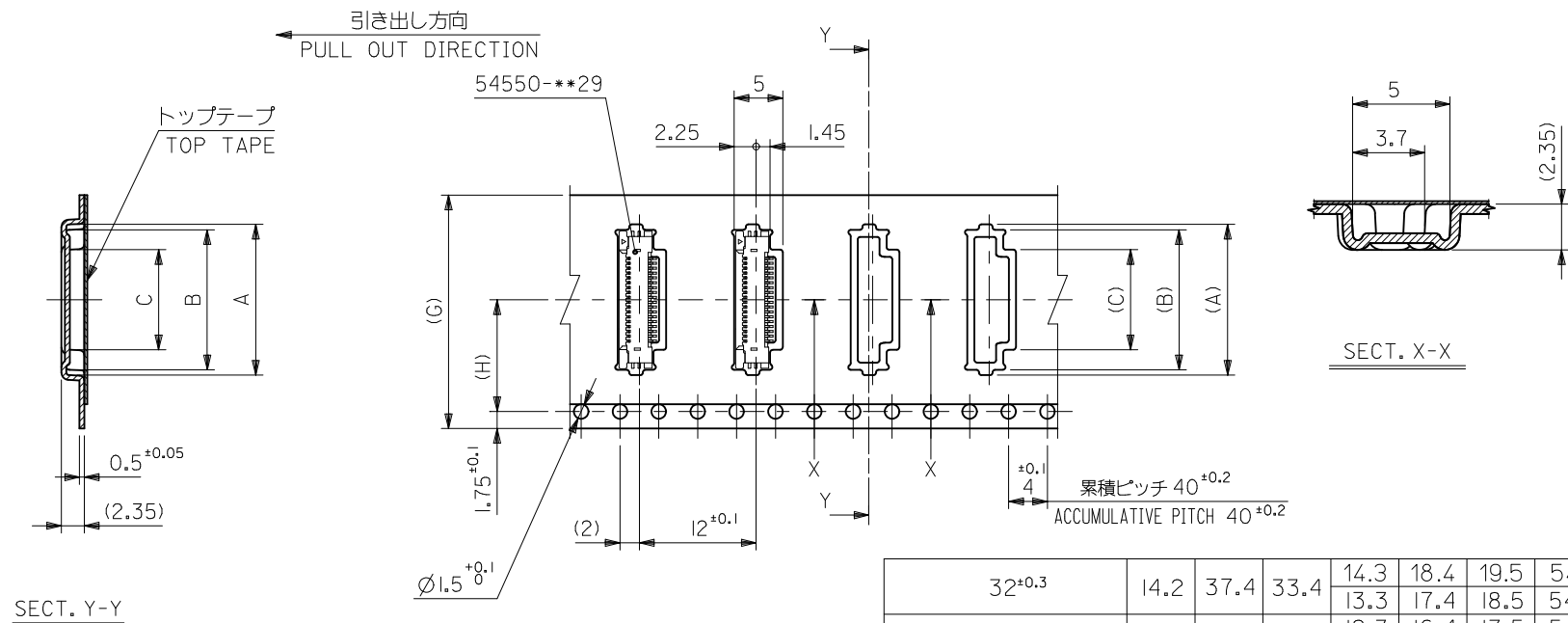
E

D

C

B

A



24, 32mm幅キャリアテープ
24mm, 32mm WIDTH CARRIER TAPE

32 ^{+0.3}	14.2	37.4	33.4	14.3	18.4	19.5	54550-2671	26
				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
24 ^{+0.3}				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	H	E	D	(C)	(B)	(A)	製品番号 MATERIAL No.
	CARRIER TAPE WIDTH							極数 Ck+

REVISED

EC NO: J2010-1202

DRWN: TONO

CHKD: SHIMOMIYAMA

APPR: KMORI KAWA

2009/12/11

2009/12/11

2009/12/14

DESCRIPTION

REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER ±0.2

10 OVER 30 UNDER ±0.25

30 OVER ±0.3

ANGULAR ±3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY

M. NINOMIYA

DATE

2004/02/12

CHECKED BY

K. TOJO

DATE

2004/02/12

APPROVED BY

M. SASAO

DATE

2004/02/12

MATERIAL NO.

SEE TABLE

SIZE

A3

SCALE

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

EMBSTP PKG FOR 0.5 FPC

CONN ZIF UPR CONT

MOLEX INCORPORATED

SD-54550-043

3 OF 3

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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