FEATURES AND SPECIFICATIONS

0.50mm (.020") Pitch FFC/FPC Connector

54132

Right Angle, SMT, ZIF Bottom Contact Style

Features and Benefits

- Sizes 30 to 50 circuits
- For 0.30mm (.012") thick FFC/FPC
- Pre-hold cable retention feature helps facilitate correct FPC insertion
- Durable actuator design
- Metal solder tabs provide pcb hold-down and strain relief for SMT tails

Reference Information

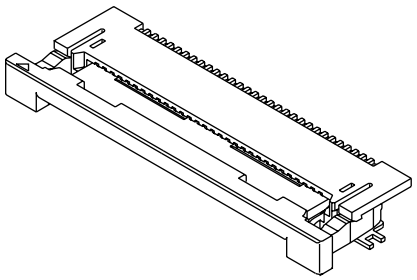
Packaging: Embossed tape
Product Specification: PS-54132-010
Designed In: Millimeters

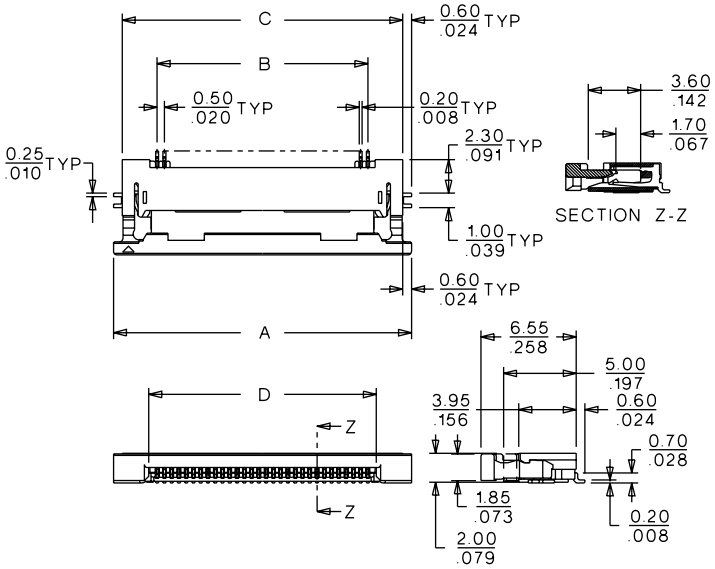
Electrical

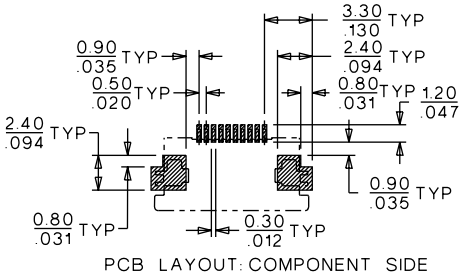
Voltage: 50V
Current: 0.5A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 250V AC/1 min.
Insulation Resistance: 50 MΩ min.

Physical

Housing: 4/6 nylon, UL 94V-0
Actuator: PPS, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Solder Tabs: Phosphor Bronze, Tin plating
Temperature: -20 to +85°C





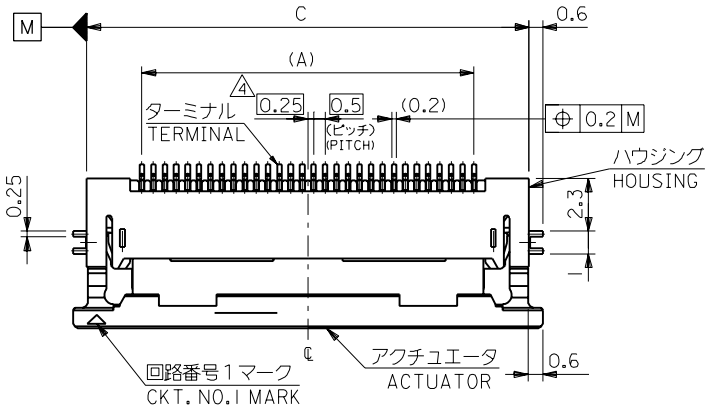


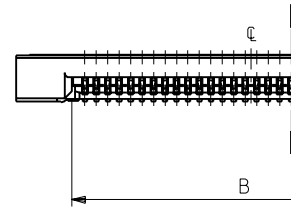
ORDERING INFORMATION AND DIMENSIONS

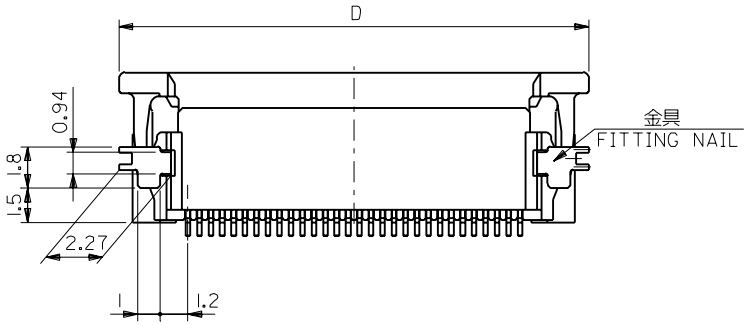
Circuits	Order No.	Dimension				Carrier Tape Width
		A	B	C	D	
30	54132-3092	20.50 (.807)	14.50 (.571)	19.30 (.760)	15.65 (.616)	44.00 (1.732)
32	54132-3292	21.50 (.846)	15.50 (.610)	20.30 (.799)	16.65 (.656)	
33	54132-3392	22.00 (.866)	16.00 (.630)	20.80 (.819)	17.15 (.675)	
34	54132-3492	22.50 (.886")	16.50 (.650")	21.30 (.839")	17.65 (.695")	
35	54132-3592	23.00 (.906)	17.00 (.669)	21.80 (.858)	18.15 (.715)	
36	54132-3692	23.50 (.925)	17.50 (.689)	22.30 (.878)	18.65 (.734)	
38	54132-3892	24.50 (.965)	18.50 (.728)	23.30 (.917)	19.65 (.774)	
40	54132-4092	25.50 (1.004)	19.50 (.768)	24.30 (.957)	20.65 (.813)	
43	54132-4392	27.00 (1.063")	21.00 (.827")	25.80 (1.016")	22.15 (.872")	
45	54132-4592	28.00 (1.102)	22.00 (.866)	26.80 (1.055)	23.15 (.911)	
50	54132-5092	30.50 (1.201)	24.50 (.965)	29.30 (1.154)	25.65 (1.010)	

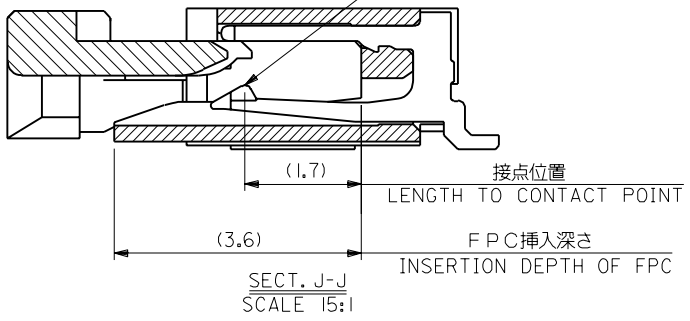
Note: For cable specification dimentions, see cable pages at end of section

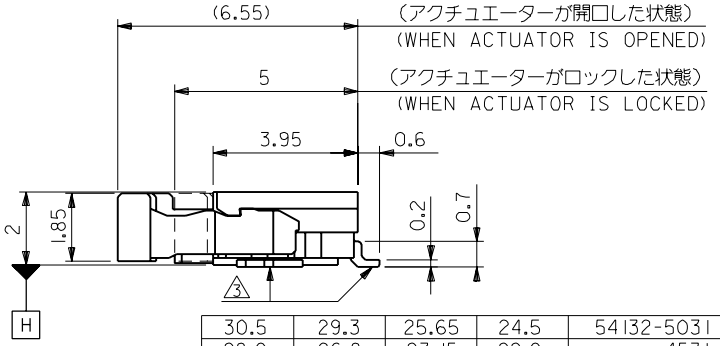
DWG. NO. SD-54132-011











30.5	29.3	25.65	24.5	54132-5031	50
28.0	26.8	23.15	22.0	-4531	45
27.0	25.8	22.15	21.0	-4331	43
25.5	24.3	20.65	19.5	-4031	40
24.5	23.3	19.65	18.5	-3831	38
23.5	22.3	18.65	17.5	-3631	36
23.0	21.8	18.15	17.0	-3531	35
22.5	21.3	17.65	16.5	-3431	34
22.0	20.8	17.15	16.0	-3331	33
21.5	20.3	16.65	15.5	-3231	32
20.5	19.3	15.65	14.5	54132-3031	30
D	C	B	A	ENG. NO.	CKT.

DO NOT SCALE DRAWING

	EC NO.	DRWN	CH'K	APPR
	EC NO.	DRWN	CH'K	APPR
	EC NO.	DRWN	CH'K	APPR
	EC NO.	DRWN	CH'K	APPR
RELEASED	EC NO. JC2001-0171	DRWN: K.KOHAMA '00/09/13	CH'K: S.KUNISHI '00/09/13	APPR: M.FUKUSHIMA '00/09/13
O				

DESCRIPTION

REV

MATERIAL 材料: SHEET 2 OF 2 参照 SEE SHEET 2 OF 2

FINISH 仕上げ

WIRE RANGE 適用電線範囲

INS. RANGE 被覆外径

GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差

10 UNDER 未満	±0.2
10 OVER 以上 30 UNDER 未満	±0.25
30 OVER 以上	±0.3
ANGLE 角度	±3°

SCALE —

DESIGN UNITS ☒mm □INCH

THIRD ANGLE PROJECTION

DIMENSIONS: □mm INCH □INCH mm ☒mm ONLY

SHT | REV

REVISE ON CAD ONLY

DRAWN BY & DATE K.KOHAMA '00/09/13

CHECKED BY & DATE S.KUNISHI '00/09/13

APPROVED BY & DATE M.FUKUSHIMA '00/09/13

CAD FILENAME 54132011.S01

TITLE: 0.5 FPC CONN. ZIF HOUSING ASS'Y FOR SMT. (R/A) BOTTOM CONTACT

molex MOLEX INCORPORATED

MATERIAL NO. 54132-**31

DRAWING NO. SD-54132-011

SHEET NO. 1 OF 2

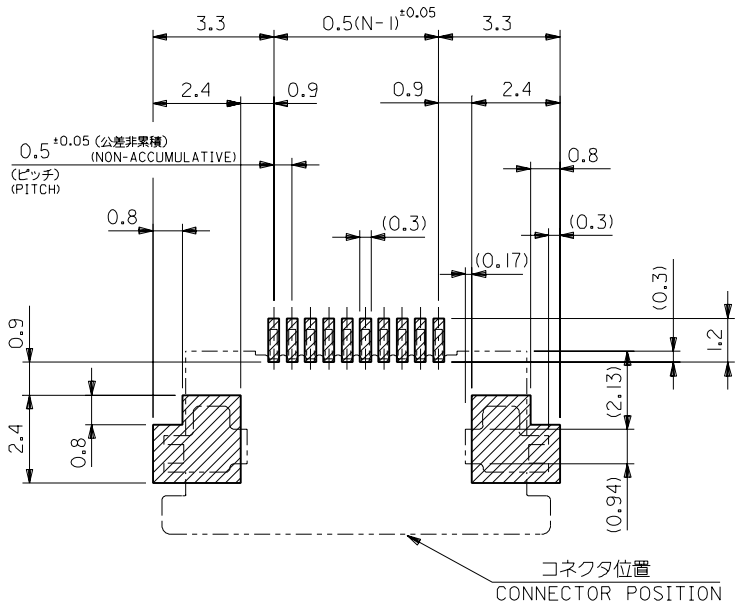
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SIZE B

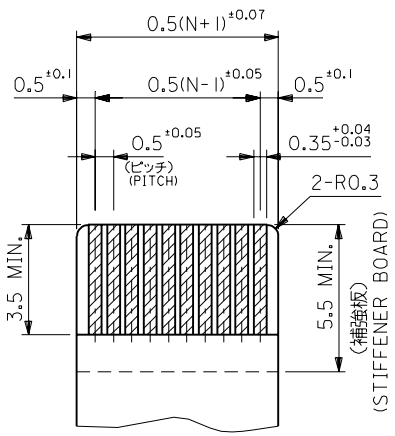
54132011.S01

EN-02J(097) MXJ-54

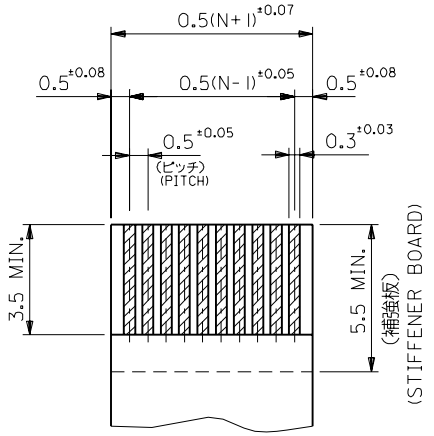
DWG. NO. SD-54132-011



参考基板レイアウト
RECOMMENDED PC BOARD PATTERN DIMENSON(REF.)
(マウント面)
(MOUNTING SIDE)



適合ＦＰＣ推奨寸法
APPLICABLE FPC RECOMMENDED DIMENSION
(仕上がり厚さ：0.3±0.03)
(THICKNESS:0.3±0.03)



適合ＦＦＣ推奨寸法
APPLICABLE FFC RECOMMENDED DIMENSION
(仕上がり厚さ：0.3±0.03)
(THICKNESS:0.3±0.03)

注記
NOTES

1. 使用材料
MATERIAL

ハウジング HOUSING	：46ナイロン，UL94V-0 :46NYLON
アクチュエーター ACTUATOR	：PPS，UL94V-0 :PPS
ターミナル TERMINAL	：リン青銅，錫メッキ（t=0．2） :PHOS-BRO,TIN-PLATED
金具 FITTING NAIL	：リン青銅，錫メッキ（t=0．2） :PHOS-BRO,TIN-PLATED

2. エンボステープ梱包時は、アクチュエーターがロックした状態とする。
IN THE PACKAGE,ACTUATOR OF PART NO.54132-**31 SHOULD BE LOCKED.

3 ソルダーテ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 H に対し上方向0．1MAX．下方向0．15MAX．とする。
MISALIGNMENT OF SOLDER TAILS AND FITTING NAIL FROM H UPPER DIRECTION:0.1 MAX.,LOWER DIRECTION:0.15MAX.

4 偶数極に適用
APPLY FOR EVEN CIRCUIT.

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

ＦＰＣ／ＦＦＣについて
打抜き方向は導体側から補強板側を推奨いたします。
導体部については軟銅箔35マイクロメーターまたは50マイクロメーター
メッキ厚　3～9マイクロメーター錫または半田メッキ（電気メッキ）
RECOMMENDED PUNCHER DIRECTION:
FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE.
RECOMMENDED CONDUCTOR SPEC.:
THICKNESS OF SOFT COPPER FOIL:
35 micrometer or 50 micrometer
TIN OR SOLDER PLATING:
3~9 micrometer(ELECTRICAL PLATING)

DO NOT SCALE DRAWING

EC NO.	DRWN:	CH'K:	APPR:	DESCRIPTION	REV
EC NO.JC2001-0171	DRWN: K.KOHAMA '00/09/13	CH'K: S.KUNISHI '00/09/13	APPR: M.FUKUSHIMA '00/09/13	RELEASED	O

MATERIAL 材料: 注記参照 SEE NOTES
FINISH 仕上げ
WIRE RANGE 適用電線範囲
INS. RANGE 被覆外径

GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差

10 UNDER 未満	±0.2
10 OVER 以上 30 UNDER 未満	±0.25
30 OVER 以上	±0.3
ANGLE 角度	±3°

SCALE —/— DESIGN UNITS ☒mm ☐INCH
THIRD ANGLE PROJECTION
DIMENSIONS: ☐mm/INCH ☐INCH/mm ☒mm ONLY
SHT REV: REVISE ON CAD ONLY

DRAWN BY & DATE K.KOHAMA '00/09/13
CHECKED BY & DATE S.KUNISHI '00/09/13
APPROVED BY & DATE M.FUKUSHIMA '00/09/13
CAD FILENAME 54132011.S02

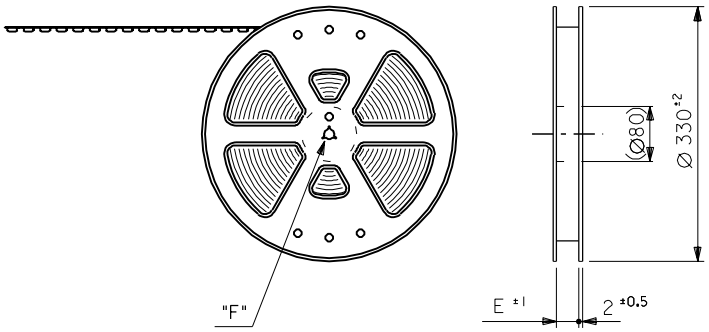
TITLE: 0.5 FPC CONN. ZIF HOUSING ASS'Y FOR SMT. (R/A) BOTTOM CONTACT
MOLEX INCORPORATED
MATERIAL NO. 54132-**31
DRAWING NO. SD-54132-011
SHEET NO. 2 OF 2

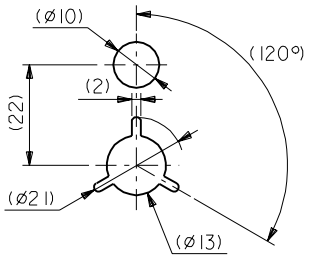
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SIZE B
54132011.S02
EN-02J(097) MXJ-54

DWG. NO. SD-54132-012

引き出し方向
PULL OUT DIRECTION



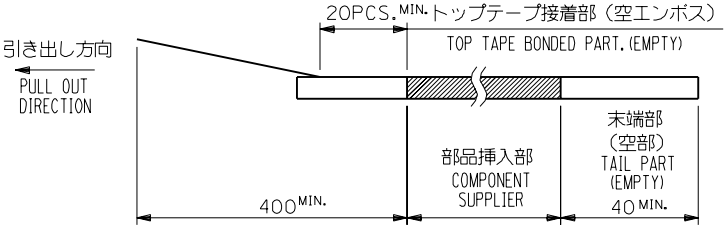


DETAIL "F"

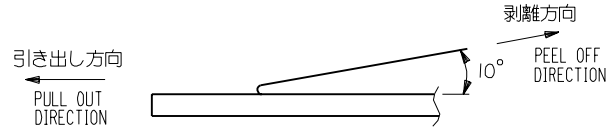
NOTES

1. 梱包数量：１５００個／リール
NUMBER OF CONNECTORS : 1500PCS/REEL

2. リードテープ長さ LEAD TAPE LENGTH



3. トップテープの剥離強度：0.1N ～ 0.7N(10.2gf ～ 71.4gf)
（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 ～0.7N(10.2gf ～ 71.4gf)
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
PEEL OFF SHOULD NOT BE ALLOWED , DURING TRANSPORTATION.



5. 材料　キャリアテープ：ポリプロピレン（ＰＰ）
トップテープ：ＰＥＴ，ＰＥ，ＰＥＦ
リール：ポリスチレン（ＰＳ）<リサイクル材を含む>

MATERIAL CARRIER TAPE:POLYPROPYLENE
TOP TAPE:PET,PE,PEF
REEL:POLYSTYRENE(PS)
<RECYCLE MATERIAL CONTAINED>

REV	DESCRIPTION	EC NO.	DRWN	CH'K	APPR
A	REVISED	EC NO.JC2001-0487	K.KOHAMA '00/2/22	S.KUNISHI '00/2/22	M.FUKUSHIMA '00/2/22
O	RELEASED	EC NO.JC2001-0171	K.KOHAMA '00/09/13	S.KUNISHI '00/09/13	M.FUKUSHIMA '00/09/13

MATERIAL 材料：注記参照 SEE NOTES
FINISH 仕上げ：
WIRE RANGE 適用電線範囲：
INS. RANGE 被覆外径：

GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差

10 UNDER 未満	±0.2
10 OVER 以上 30 UNDER 未満	±0.25
30 OVER 以上	±0.3
ANGLE 角度	±3°

SCALE 2:1 | DESIGN UNITS ☒mm ☐INCH | THIRD ANGLE PROJECTION | DIMENSIONS: ☐mm/INCH ☐INCH/mm ☒mm ONLY | SHT | REV | REVISE ON CAD ONLY

DRAWN BY & DATE K.KOHAMA '00/09/13
CHECKED BY & DATE S.KUNISHI '00/12/22
APPROVED BY & DATE M.FUKUSHIMA '00/12/22
CAD FILENAME 54132012.S01

TITLE: EMBOSSED TAPE PACKAGE FOR 0.5 FPC CONN. ZIF

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MATERIAL NO. 54132-**92 | DRAWING NO. SD-54132-012 | SHEET NO. 1 OF 2 | SIZE B

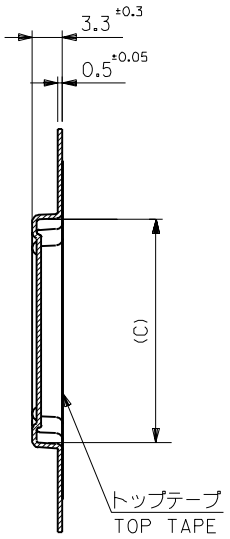
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DO NOT SCALE DRAWING

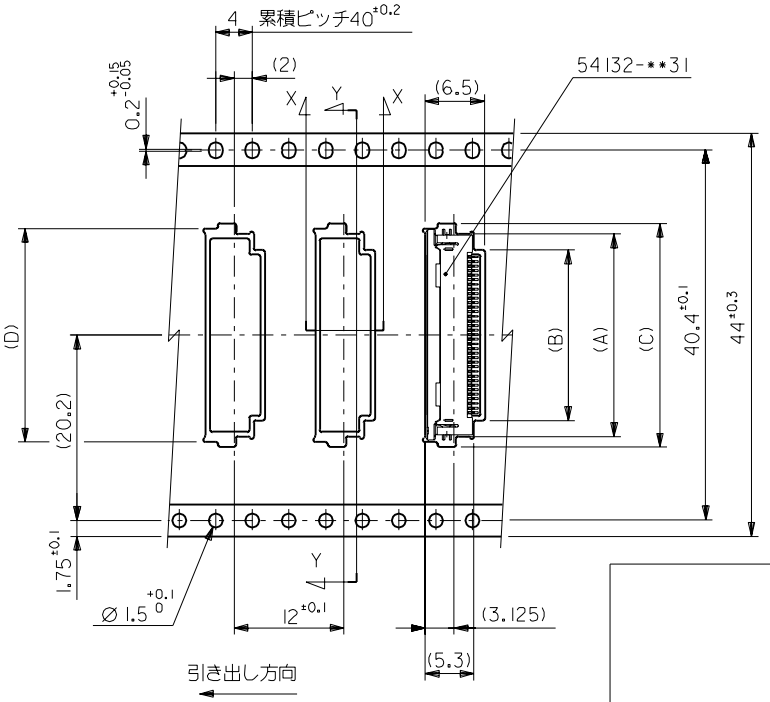
54132012.S01

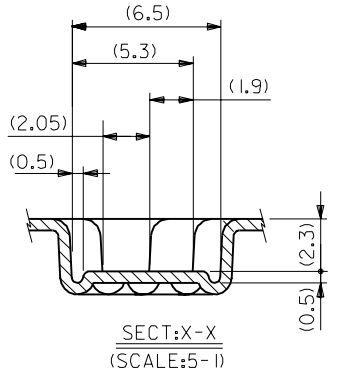
EN-02J(097) MXJ-54

DWG. NO. SD-54132-012



SECT:Y-Y





SECT:X-X
(SCALE:5-1)

44	45.5	30.8	31.6	26.1	29.6	54132-5092	50
		28.3	29.4	23.6	27.1	-4592	45
		27.3	28.4	22.6	26.1	-4392	43
		25.8	26.9	21.1	24.6	-4092	40
		24.8	25.9	20.1	23.6	-3892	38
		23.8	24.9	19.1	22.6	-3692	36
		23.3	24.4	18.6	22.1	-3592	35
		22.8	23.9	18.1	21.6	-3492	34
		22.3	23.4	17.6	21.1	-3392	33
		21.8	22.9	17.1	20.6	-3292	32
		20.8	21.9	16.1	19.6	54132-3092	30
キャリアテープ幅 CARRIER TAPE WIDTH	E	D	C	B	A	ENG. NO.	CKT.

DO NOT SCALE DRAWING

REV	DESCRIPTION	EC NO.	DRWN	CH'K	APPR
A	REVISED EC NO.JC2001-0487 DRWN: K.KOHAMA '00/2/22 CH'K: S.KUNISHI '00/2/22 APPR: M.FUKUSHIMA '00/2/22				
O	RELEASED EC NO.JC2001-0171 DRWN: K.KOHAMA '00/09/13 CH'K: S.KUNISHI '00/09/13 APPR: M.FUKUSHIMA '00/09/13				

MATERIAL 材料: SHEET 1 OF 2 参照 REFER TO SHEET 1 OF 2

FINISH 仕上げ

WIRE RANGE 適用電線範囲

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SCALE 2:1 | DESIGN UNITS ☒mm ☐INCH | THIRD ANGLE PROJECTION | DIMENSIONS: ☐mm/INCH ☐INCH/mm ☒mm ONLY | SHT | REV | REVISE ON CAD ONLY

DRAWN BY & DATE K.KOHAMA '00/09/13

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APPROVED BY & DATE M.FUKUSHIMA '00/12/22

CAD FILENAME 54132012.S02

TITLE: EMBOSSED TAPE PACKAGE FOR 0.5 FPC CONN. ZIF

molex MOLEX INCORPORATED

MATERIAL NO. 54132-**92 | DRAWING NO. SD-54132-012 | SHEET NO. 2 OF 2

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SIZE B

54132012.S02

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