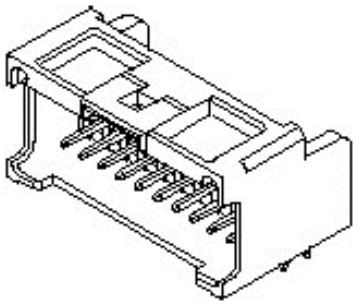
This document was generated on 06/07/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0559591230
Status: Active
Overview: microclasp
Description: 2.00mm (.079") Pitch MicroClasp™ Wire-to-Board Header, Dual Row, Right Angle, 12 Circuits



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-51353-003 (PDF)
Product Specification PS-51353-010 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	PCB Headers
Series	55959
Application	Wire-to-Board
MolexKits	Yes
Overview	microclasp
Product Name	MicroClasp™

Physical

Breakaway	No
Circuits (Loaded)	12
Circuits (maximum)	12
Color - Resin	Natural
Durability (mating cycles max)	30
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Polyester
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.126 In
PC Tail Length (mm)	3.20 mm
PCB Locator	No
PCB Retention	Yes
PCB Thickness Recommended (in)	0.045 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.079 In
Pitch - Mating Interface (mm)	2.00 mm
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-25°C to +85°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	3A
Voltage - Maximum	250V

Material Info

Reference - Drawing Numbers

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

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
55959Series

Mates With
51353 MicroClasp™ Wire-to-Board Receptacle Housing

Packaging Specification	SPK-55959-001
Product Specification	PS-51353-003, PS-51353-010, RPS-51353-005, RPS-51353-008, RPS-51353-009, RPS-51353-010, RPS-51353-014, RPS-51353-017, RPS-51353-019, RPS-51353-020, RPS-51353-021, RPS-51353-022, RPS-51353-023, RPS-51353-024, RPS-51353-025, RPS-51353-026, RPS-51353-028, RPS-51353-030
Sales Drawing	SD-55959-001, SD-55959-003

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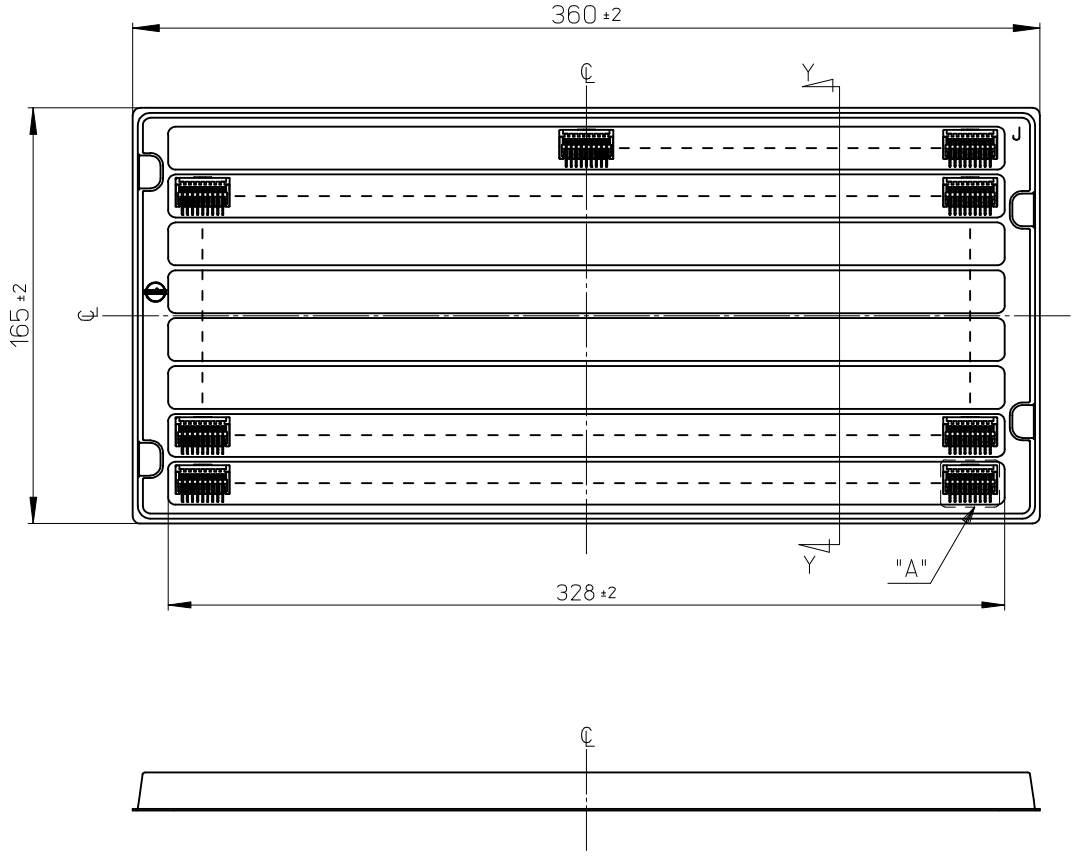
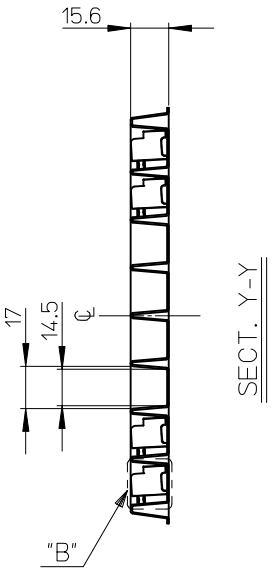
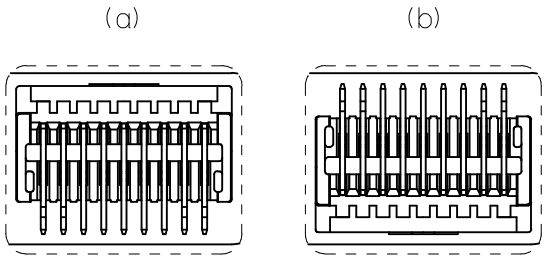
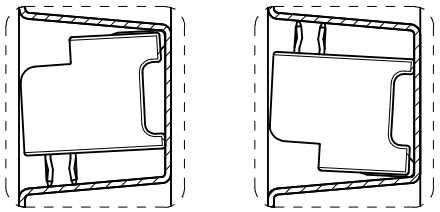






△3 DETAIL A
(SCALE 2:1)



△3 DETAIL B
(SCALE 2:1)

注記

1．一般公差：±0．5
GENERAL TOLERANCES:±0.5
2．各部の反りは2．0MAX．
WARP:2.0MAX.
△3 トレイの中の製品の向きは（a）又は（b）とし、かつ同一トレイ中の製品の向きはどちらか一方で統一
PRODUCT DIRECTION SHOULD BE (a) OR (b).
ALL PRODUCTS MUST FACED THE SAME DIRECTION IN THE TRAY.

適用製品番号 APPLICABLE PART No.
55959-**7*
55959-**3*

RELEASED
EC NO: J2009-0955 2008/10/20
DRWN:Y.TOKUZONO 2008/10/20
CH'KD:T.HARUYAMA 2008/10/20
APPR:N.UKITA 2008/10/20
DESCRIPTION
REV 0

GENERAL TOLERANCES (UNLESS SPECIFIED)
10 UNDER ±---
10 OVER 30 UNDER ±---
30 OVER ±---
ANGULAR ±--- °
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY	SCALE: 1:2	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION

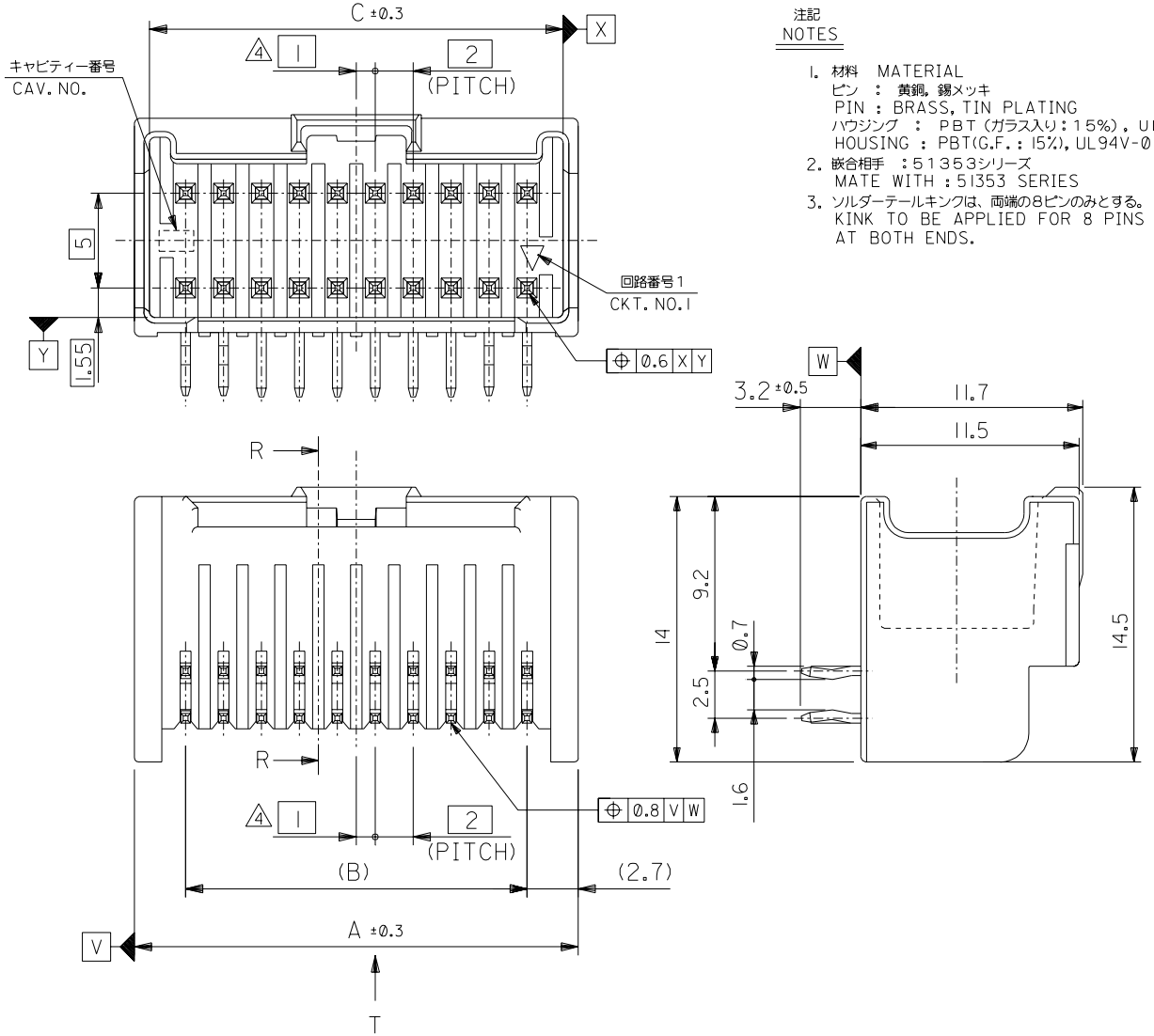
DRAWN BY: Y.TOKUZONO DATE: 2008/10/17
CHECKED BY: T.HARUYAMA DATE: 2008/10/17
APPROVED BY: N.UKITA DATE: 2008/10/17

TITLE: TRAY FOR 55959 (2.0MM W-T-B DUAL CONN. DIP PLUG HOUSING ASS'Y)

MOLEX INCORPORATED

MATERIAL NO.: 098910030
DOCUMENT NO.: SD-55959-001
SHEET NO.: 1 OF 1
SIZE: A3

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



注記
NOTES

1. 材料 MATERIAL
   ピン : 黄銅, 錫メッキ
   PIN : BRASS, TIN PLATING
   ハウジング : PBT (ガラス入り: 15%), UL94V-0
   HOUSING : PBT(G.F.: 15%), UL94V-0
2. 嵌合相手 : 51353シリーズ
   MATE WITH : 51353 SERIES
3. ソルダーテールキンクは、両端の8ピンのみとする。
   KINK TO BE APPLIED FOR 8 PINS AT BOTH ENDS.

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

5 製品番号
MATERIAL NO.
55959-**3*
極数 CIRCUIT SIZE
色 COLOR

ナチュラル (白) NATURAL(WHITE)	0
黒 BLACK	1
赤 RED	2
黄 YELLOW	3
青 BLUE	4
桃 PINK	5
緑 GREEN	6
茶 BROWN	7
橙 ORANGE	8
紫 VIOLET	9

41.8	38	43.4	55959-403*	40
39.8	36	41.4	-383*	38
37.8	34	39.4	-363*	36
35.8	32	37.4	-343*	34
33.8	30	35.4	-323*	32
31.8	28	33.4	-303*	30
29.8	26	31.4	-283*	28
27.8	24	29.4	-263*	26
25.8	22	27.4	-243*	24
23.8	20	25.4	-223*	22
21.8	18	23.4	-203*	20
19.8	16	21.4	-183*	18
17.8	14	19.4	-163*	16
15.8	12	17.4	-143*	14
13.8	10	15.4	-123*	12
11.8	8	13.4	-103*	10
9.8	6	11.4	55959-083*	8
C	B	A	4 MATERIAL NO.	CKT.

DO NOT SCALE DRAWING

	EC NO.	DRWN:	CH'K:	APPR:	DESCRIPTION	REV
					REVISED	F
	J2004-3728	Y.WADA	M.SASAO	M.SASAO	'04/04/09	
					REVISED	E
	J2003-3290	N.ITO	K.ASAKAWA	T.YAMAGUCHI	'03/06/26	

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°

55959-**3*

SCALE: //
DESIGN UNITS: ☒mm ☐INCH
MODEL NO.
THIRD ANGLE PROJECTION
DIMENSIONS: ☐mm/INCH ☐INCH/mm ☒mm ONLY
SHT | REV
REVISE ON CAD ONLY

DRAWN BY & DATE: N.ITO '02/02/24
CHECKED BY & DATE: K.ASAKAWA '03/06/26
APPROVED BY & DATE: T.YAMAGUCHI '03/06/26
CAD FILENAME: 55959003.S01

TITLE: 2.0mm W-to-B DUAL CONN DIP PLUG HOUSING ASS'Y R/A (WITHOUT BOSS) -LEAD FREE-

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DRAWING NO.: SD-55959-003
SHEET NO.: 1 OF 3

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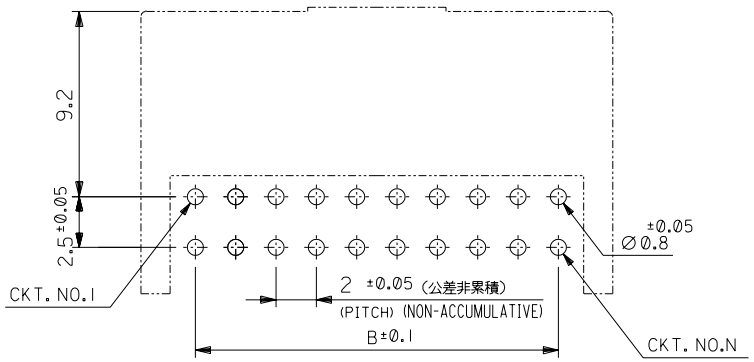
SIZE B

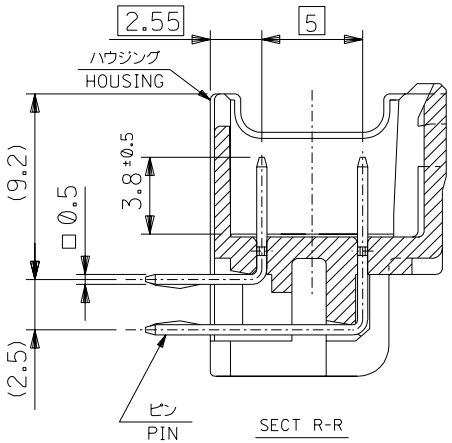
55959003.S01

EN-02J(097) MXJ-54

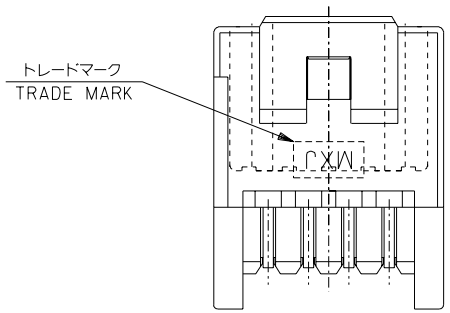
DWG. NO. SD-55959-003



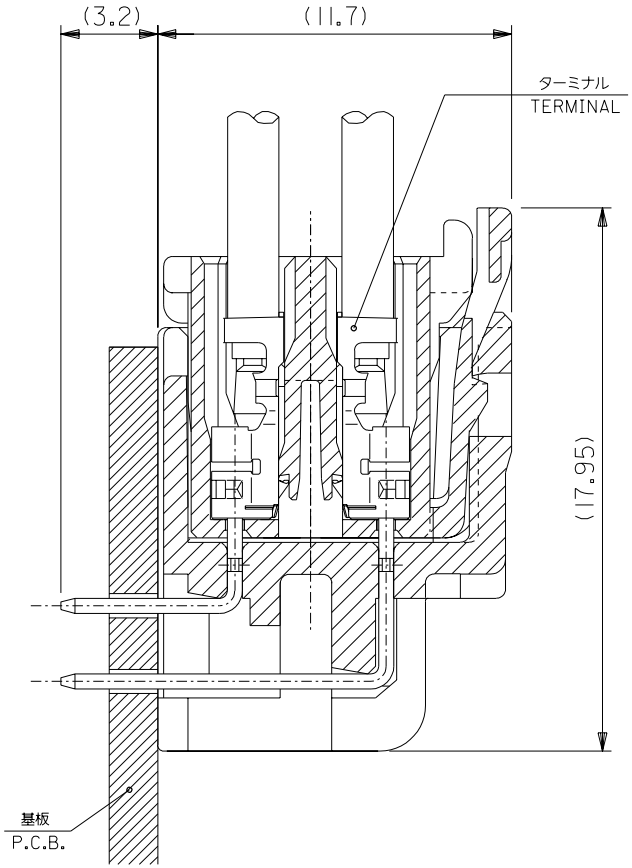
基板取付穴推奨寸法（マウント面）
RECOMMENDED P.C.BOARD HOLE DIMENSION (MOUNTING SIDE) (t =1.2,1.6)



SECT R-R



8 CIRCUIT



嵌合断面図（参考）
MATED DRAWING (REF.)

DO NOT SCALE DRAWING

REV	DESCRIPTION	EC NO.	DRWN	CH'K	APPR
F	REVISED	EC NO. J2004-3728	DRWN:Y.WADA '04/04/09	CH'K: M.SASAO	APPR:M.SASAO
E	REVISED	EC NO. J2003-3290	DRWN:N.ITO '03/06/26	CH'K: K.ASAKAWA	APPR:T.YAMAGUCHI

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

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30 OVER 以上	±0.3
ANGLE 角度	±3°

55959-**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: N.ITO '02/02/24
CHECKED BY & DATE: K.ASAKAWA '03/06/26
APPROVED BY & DATE: T.YAMAGUCHI '03/06/26
CAD FILENAME: 55959003.S02

TITLE: 2.0mm W-t-B DUAL CONN DIP PLUG HOUSING ASS'Y R/A (WITHOUT BOSS) -LEAD FREE-

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DRAWING NO.: SD-55959-003
SHEET NO.: 2 OF 3
SIZE: B

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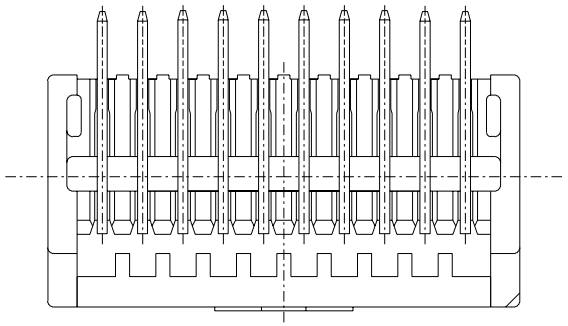
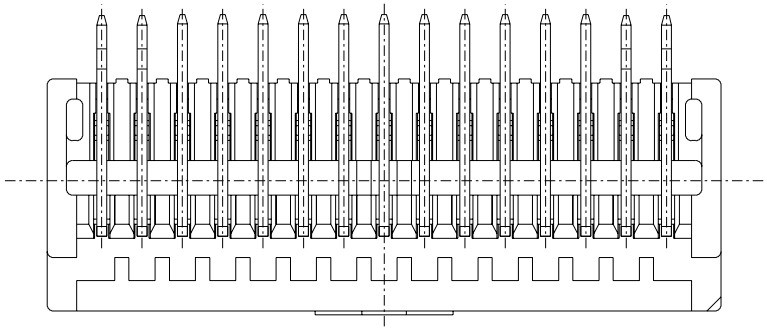
55959003.S02

EN-02J(097) MXJ-54

DWG. NO. SD-55959-003

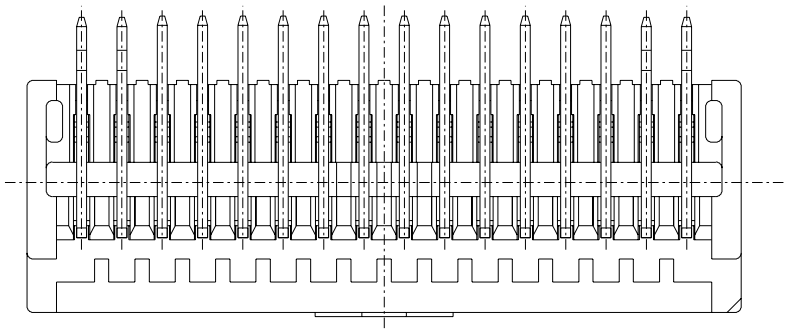


8-20 CIRCUIT



22,26,30,34,38 CIRCUIT

VIEW "T"



24,28,32,36,40 CIRCUIT

REV	DESCRIPTION	EC NO.	DRWN	CH'K	APPR
F	REVISED	EC NO. J2004-3728	DRWN:Y.WADA '04/04/09	CH'K: M.SASAO	APPR:M.SASAO
E	REVISED	EC NO. J2003-3290	DRWN:N.ITO '03/06/26	CH'K: K.ASAKAWA	APPR:T.YAMAGUCHI

DO NOT SCALE DRAWING

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

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

55959-**3*

SCALE: //

DESIGN UNITS: ☒mm ☐INCH

MODEL NO.

THIRD ANGLE PROJECTION

DIMENSIONS: ☐ mm/INCH ☐ INCH/mm ☒ mm ONLY

SHT | REV

REVISE ON CAD ONLY

DRAWN BY & DATE: N.ITO '02/02/24

CHECKED BY & DATE: K.ASAKAWA '03/06/26

APPROVED BY & DATE: T.YAMAGUCHI '03/06/26

TITLE: 2.0mm W-t-B DUAL CONN DIP PLUG HOUSING ASS'Y R/A (WITHOUT BOSS) -LEAD FREE-

molex MOLEX INCORPORATED

CAD FILENAME: 55959003.S03

MATERIAL NO.: SEE CHART

DRAWING NO.: SD-55959-003

SHEET NO.: 3 OF 3

SIZE: B

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55959003.S03

EN-02J(097) MXJ-54