

FEATURES AND SPECIFICATIONS

Features and Benefits

- Stacking heights: 10.0, 12.0mm
- Sizes 50 to 140 circuits
- Leaf-style design protects pins
- Antiflux design
- Low insertion force
- Polarization pegs assist placement

Reference Information

Packaging: Tube
 UL File No.: E29179
 Mates With: [52584](#) (H=10.0mm)
[52602](#) (H=12.0mm)
 Designed In: Millimeters

Electrical

Voltage: 100V
 Current: 0.5A
 Contact Resistance: Height 8 to 12mm—40mΩ max.
 Height 13 to 16mm—55mΩ max.
 Height 17 to 20mm—70mΩ max.
 Dielectric Withstanding Voltage: 200V AC
 Insulation Resistance: 1000 MΩ min.

Physical

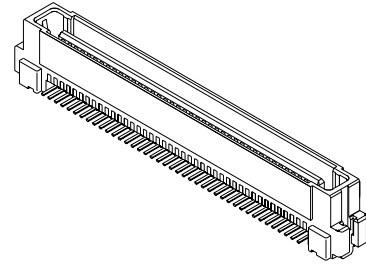
Housing: White glass-filled LCP, UL 94V-0
 Contact: Phosphor Bronze
 Plating: Gold (0.25μm) over Tin/Lead over Nickel
 Operating Temperature: -55 to +85°C



1.00mm (.039") Pitch Board-to-Board Plug

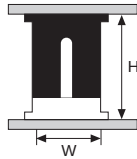
53397

SMT, Dual Row Vertical Stacking

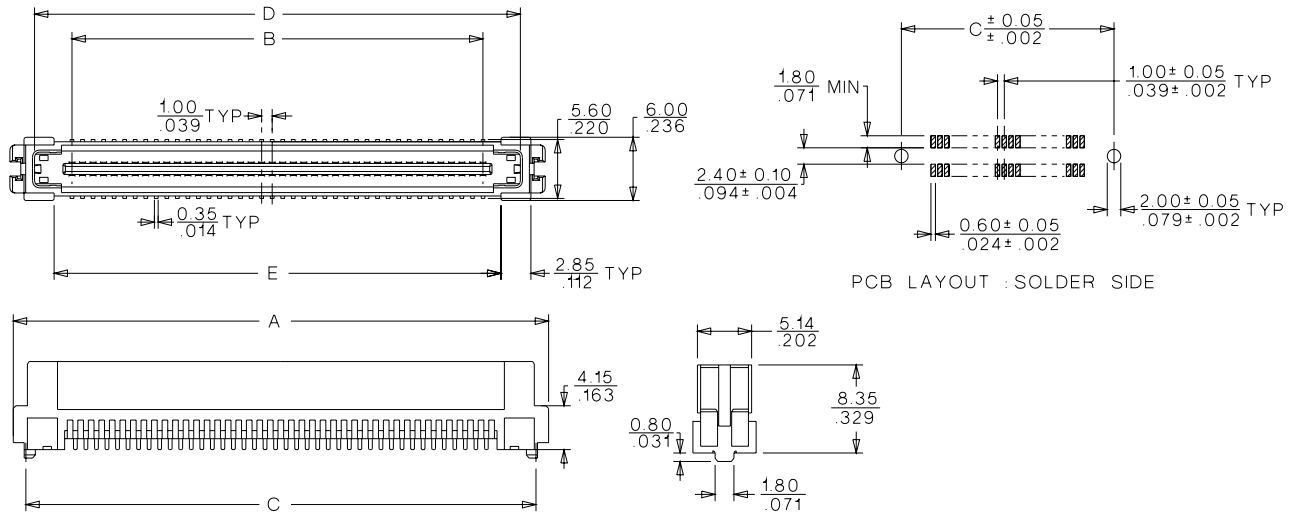


Mating Dimensions

- 53397 • 52584
H=10.0mm W=6.0mm
- 53397 • 52602
H=12.0mm W=6.0mm



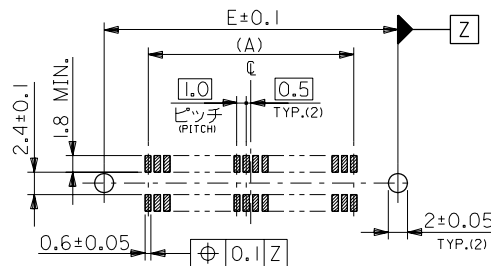
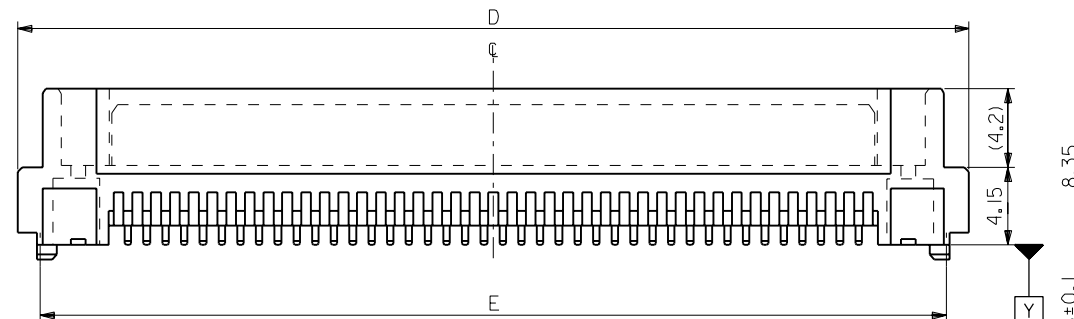
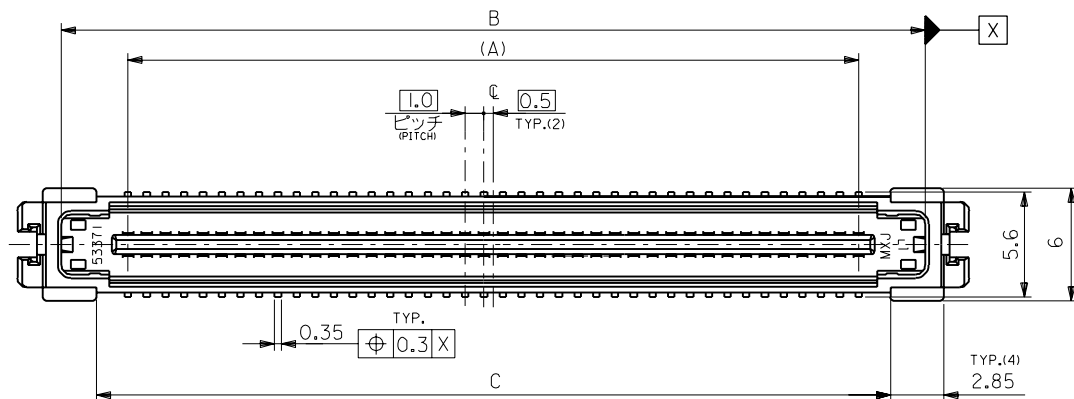
CATALOG DRAWING (FOR REFERENCE ONLY)



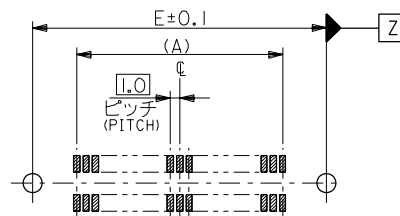
ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension				
		A	B	C	D	E
50	53397-0509	35.80 (1.409)	24.00 (.945)	33.40 (1.315)	31.02 (1.221)	27.40 (1.079)
80	53397-0809	50.80 (2.000)	39.00 (1.535)	48.40 (1.906)	46.02 (1.812)	42.40 (1.669)
84	53397-0849	52.80 (2.079)	41.00 (1.614)	50.40 (1.984)	48.02 (1.891)	44.40 (1.748)
100	53397-1009	60.80 (2.394)	49.00 (1.929)	58.40 (2.299)	56.02 (2.206)	52.40 (2.063)
120	53397-1209	70.80 (2.787)	59.00 (2.323)	68.40 (2.693)	66.02 (2.599)	62.40 (2.457)
140	53397-1409	80.80 (3.181)	69.00 (2.717)	78.40 (3.087)	76.02 (2.993)	72.40 (2.850)

Note: Use only one connector per daughterboard in order to insure proper mating alignment



推奨基板寸法(80, 84, 100, 120, 140極)
RECOMMENDED PCB PATTERN LAYOUT (80,84,100,120,140 CKTS.)
(SCALE 2-1)



推奨基板寸法(50極)
RECOMMENDED PCB PATTERN LAYOUT (50 CKTS.)
(SCALE 2-1)

角度	ANGLE	+3°
30以上	OVER	+0.3
10以上 30未満	OVER UNDER	+0.25
10未満	UNDER	+0.2
般公差 GENERAL TOLERANCES		

記号	変更内容	DR.	CHK.	DATE
E	変更 (T40256)	J.M.	Y.i	'94/5/10
D	変更 (T40164)	S.A.	J.M.	'94/3/28
C	変更 (T40044)	S.A.	J.M.	'94/1/21
B	変更 (T30355)	J.M.	Y.i	'93/7/18
A	変更 (T30299)	J.M.	Y.i	'93/6/11
O	新規作成 RELEASED (T20452)	J.M.	S.	'92/10/27

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX(JAPAN) AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
本図面は日本モレックス(株)の所有する情報を含むもので 当社の許可なく複製を禁止する。

EN-01(C032)MXJ-32

注) NOTES

1. 材質 MATERIAL

ハウジング: ガラス入り LCP、白色、UL94V-0
HOUSING: G.F.LCP, WHITE, UL94V-0
ターミナル: 燐青銅 (t=0.2)
TERMINAL: PHOSPHOR BRONZE

2. メッキ仕様 PLATING

接点部: 金メッキ 0.25 μm MIN.
CONTACT AREA: GOLD 0.25 μm MIN.
半田付け部: 半田メッキ 1.0 μm MIN.
SOLDER TAIL AREA: TIN-LEAD 1.0 μm MIN.
下地メッキ: ニッケルメッキ 2.0 μm MIN.
UNDER-PLATING: NICKEL 2.0 μm MIN.

3. 推奨基板厚 RECOMMENDED PCB THICKNESS

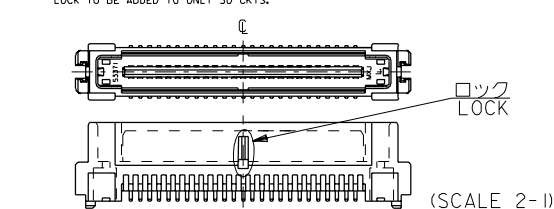
1.0±0.1mm MIN.

4. テールのバラツキ寸法 TAIL COPLANARITY

テールは、Y面を基準とし、上へ0.02MAX.
下へ0.13MAX.とする。

TAIL COPLANARITY TO BE 0.02MAX. UPWARD AND 0.13MAX. DOWNWARD FROM Y-DATUM PLANE.

5. ロックは、50極に設置する。 LOCK TO BE ADDED TO ONLY 50 CKTS.



6. 梱包 PACKAGING

本製品はスティック梱包とし梱包後のENG. NO. は
53397-***9とする。

THIS PRODUCTS TO BE PACKED IN TUBE. ENG. NO.: 53397-***9

7. 同一基板内に複数個(2個以上)の使用は避けてください。 MXJ DOES NOT RECOMMEND THE USAGE OF TWO OR MORE OF THESE CONNECTORS BETWEEN A SINGLE PAIR OF P.C.B. BOARD.

78.4	80.8	72.4	76.02	69	53397-1400	140
68.4	70.8	62.4	66.02	59	53397-1200	120
58.4	60.8	52.4	56.02	49	53397-1000	100
50.4	52.8	44.4	48.02	41	53397-0840	84
48.4	50.8	42.4	46.02	39	53397-0800	80
33.4	35.8	27.4	31.02	24	53397-0500	50
E	D	C	B	(A)	ENG. NO.	極数 NO. OF CKTS.

材料 MATERIAL

注参照 SEE NOTES

仕上げ FINISH

注参照 SEE NOTES

適用電線範囲 WIRE RANGE

—

被覆外径 INS. RANGE

—

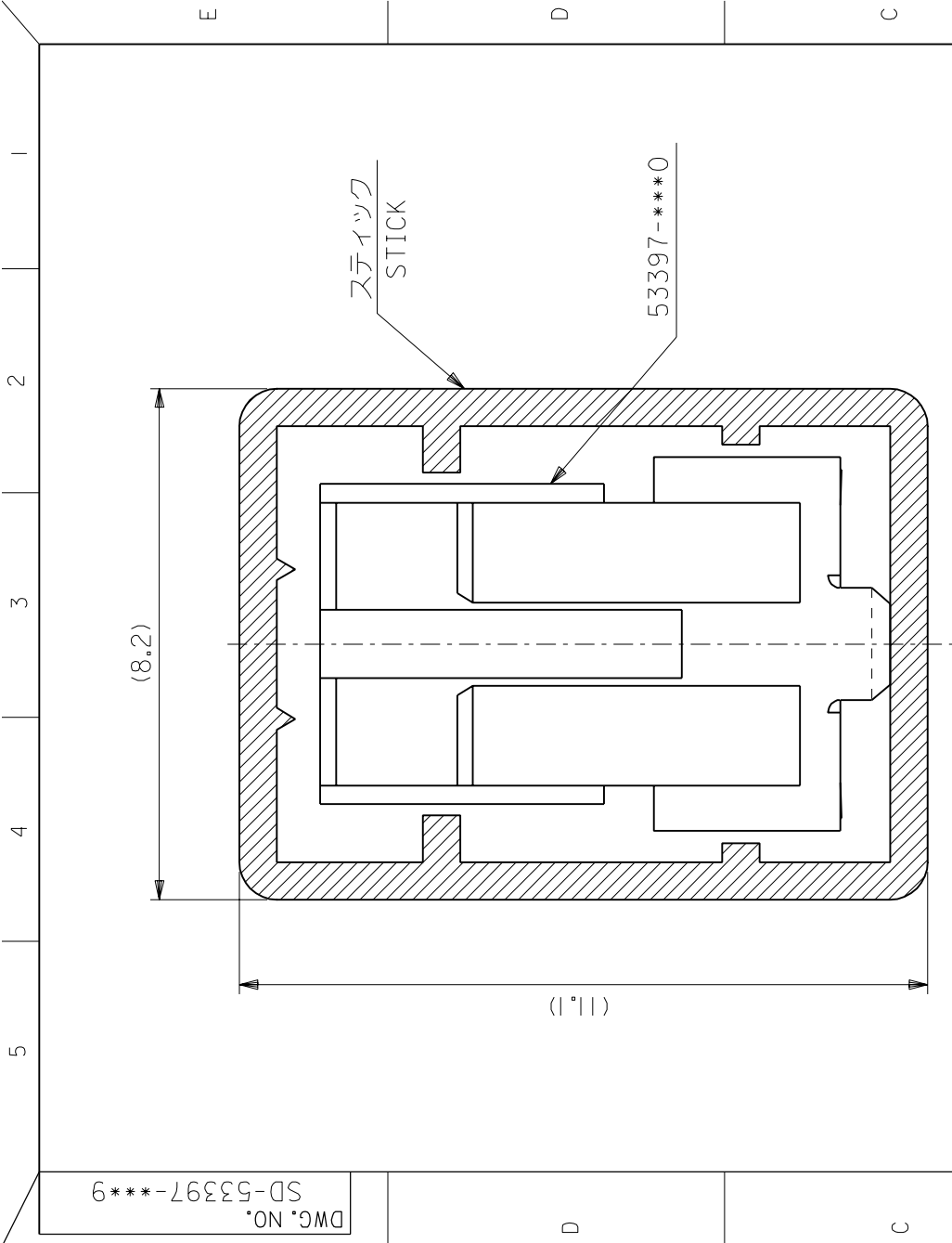
DRAWN BY

CHK'D BY

DATE

SCALE 4-1

MOLEX-JAPAN CO.,LTD.
日本モレックス株式会社REVISE ONLY ON CAD SYSTEM
TITLE 名称I/O B-T0-B
S/T PLUG HS'G ASS'YDWG. NO.
SD-53397-***0REV
E



注記
NOTES

1. スティック両端はキャップ止め。
BOTH ENDS WITH CAPS.
2. 全 長: 600 ± 2
TOTAL LENGTH
3. 肉 厚: 0.6 ± 0.2
THICKNESS

DWG. NO. SD-53397-***9

DIMENSIONS IN METRIC DO NOT SCALE DRAWING

角 度	ANGLE	±3°
30°以上	OVER	±0.3
10°以上	OVER	±0.25
10°未満	UNDER	±0.2
一 般 公 差		
GENERAL TOLERANCES		

7	53397-1409	140
8	53397-1209	120
9	53397-1009	100
10	53397-0849	84
11	53397-0809	80
15	53397-0509	50
梱包数 QUANTITY		極数 NO. OF CKTS.
ENG. No.		

材 料 MATERIAL		MOLEX-JAPAN CO.,LTD. モレックス株式会社	
スティック: ポリ塩化ビニル STICK: P.V.C		REVISE ONLY ON CAD SYSTEM	
仕 上 げ FINISH		TITLE 名称	
適用電線範囲 WIRE RANGE		53397-***0	
被覆外径 INS. RANGE		STICK PACKAGING	
DRAWN BY CHK'D BY		DWG. NO.	
APP'D BY SCALE 10 - 1		REV	
DATE		D	
REVISION RECORD		SD-53397-***9	

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX(JAPAN) AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
本図面は日本モレックス(株)の所有する情報を含むもので当社の許可なく複製を禁止する。

FN-0101037MX.1-33