

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0538850708

Status:

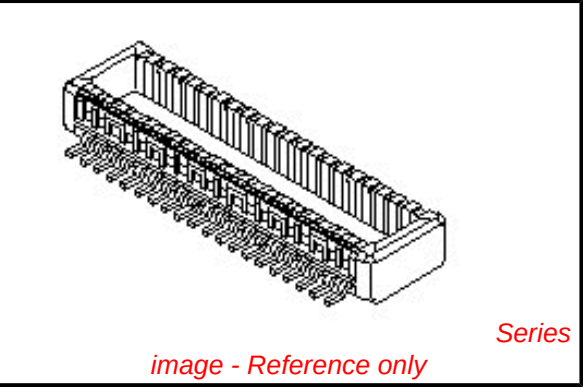
Active

Overview:

slimstack_050mm_020_pitch

Description:

0.50mm (.020") Pitch SlimStack™ Plug, Surface Mount, Dual Row, Vertical, 2.50mm (.098") Stack Height, without Solder Tab, 70 Circuits



Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-54102-001 \(PDF\)](#)

[Product Specification PS-54102-011 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

General	
Product Family	PCB Headers
Series	53885
Application	Board-to-Board
Overview	slimstack_050mm_020_pitch
Product Name	SlimStack™
Physical	
Breakaway	No
Circuits (Loaded)	70
Circuits (maximum)	70
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	None
Mated Height (in)	0.098 In
Mated Height (mm)	2.50 mm
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.025 In
PC Tail Length (mm)	0.64 mm
PCB Locator	No
PCB Retention	None
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.020 In
Pitch - Mating Interface (mm)	0.50 mm
Plating min: Mating (µin)	10
Plating min: Mating (µm)	0.25
Plating min: Termination (µin)	4
Plating min: Termination (µm)	0.1
Polarized to PCB	No
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact

0.5A

Voltage - Maximum

50V

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

53885Series

Mates With

54102 SlimStack™ Receptacle

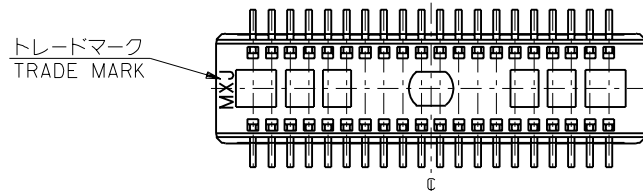
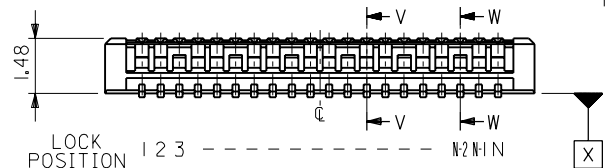
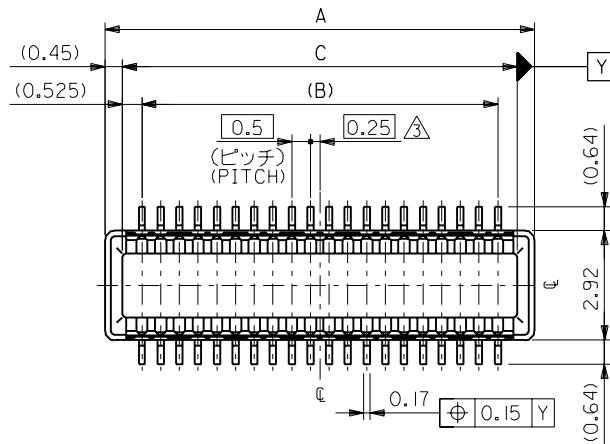
Material Info

Reference - Drawing Numbers

Packaging Specification	SPK-53885-001
Product Specification	PS-54102-001, PS-54102-011, RPS-54102-002, RPS-54102-009, RPS-54102-011, RPS-54102-013, RPS-54102-015
Sales Drawing	SD-53885-***1, SD-53885-***8

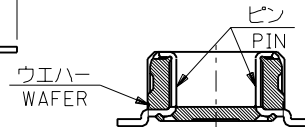
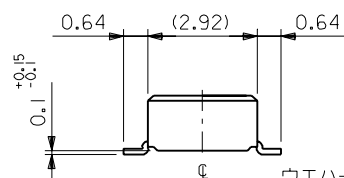
This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

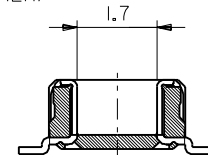


注記 NOTES:

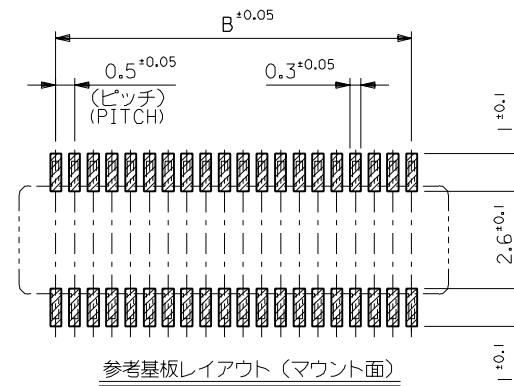
1. 使用材料 MATERIAL
ハウジング: 液晶ポリマー。ガラス充填, UL94V-0, 色: 黒。
HOUSING: LCP, GLASS FILL, UL94V-0, COLOR: BLACK
ターミナル: 黄銅 (t=0.15)
TERMINAL: BRASS (t=0.15)
2. メッキ仕様 PLATING
金メッキ 0.25 マイクロメートル以上 (コンタクト部)
GOLD(AU) 0.25 MICROMETER MIN. (CONTACT AREA)
金メッキ 0.4 マイクロメートル以下 (テール部)
GOLD(AU) 0.4 MICROMETER MAX. (TAIL AREA)
下地メッキ: ニッケルメッキ 1.5 マイクロメートル以上
UNDER PLATING: NICKEL 1.5 MICROMETER MIN.
- △ (全極数/2) = 偶数の場合に適用。
APPLY FOR (CIRCUIT/2)=EVEN.
嵌合相手: 54102 シリーズ
MATE WITH: 54102 SERIES.
5 テール平坦度は、0.1MAX.
TAIL COPLANARITY TO BE 0.1MAX.



SECT.W-W(LOCK PART)
(SCALE 10:1)



SECT.V-V(W/O LOCK PART)
(SCALE 10:1)



参考基板レイアウト (マウント面)

RECOMMENDED P.C. BOARD
PATTERN DIMENSION. (REF.)
(MOUNTING AREA)

NONE	20.55	19.5	21.45	53885-080I	80
	18.05	17.0	18.95	53885-070I	70
10,21	15.55	14.5	16.45	53885-060I	60
4,10,16,22	13.05	12.0	13.95	53885-050I	50
3,6,9,12,15,18	10.55	9.5	11.45	53885-040I	40
1,3,5,7,9,11,13,15	8.05	7.0	8.95	53885-030I	30
ALL	5.55	4.5	6.45	53885-020I	20
LOCK POSITION	C	B	A	ENG. NO.	CKT.

角 度		ANGLE	±3°
30 以上	OVER	±0.3	
10 以上 30 未満	OVER	±0.25	
10 未満	UNDER	±0.2	
GENERAL TOLERANCES			
記号	変更内容	DR.	日付
LTR	REVISION RECORD	CHK.	DATE
D	変更 (JC2001-0083)	Y.T.	'00/8/3
C	変更 (JC2000-0225)	M.T.	'99/9/30
B	変更 (JC90055)	T.N.	'98/7/23
A	変更 (JC70984)	S.K.	'97/6/20
O	新規作成 (JC70275)	S.K.	'96/9/5

材 料		注記参照
MATERIAL		SEE NOTES
仕上げ	FINISH	—
適用電線範囲	WIRE RANGE	—
被覆外径	INS. RANGE	—
DRAWN BY	'96/9/5	CHK'D BY
T.NIITSU	'00/8/3	T.IITO
APP'D BY	'00/8/3	尺 度
M.FUKUSHIMA	SCALE	—

molex MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社	
REVISE ONLY ON CAD SYSTEM	
TITLE 名称	
0.5 BOARD TO BOARD Conn PLUG Hgt=2.5mm	
DWG. NO. (SHEET 1 OF 2)	REV
SD-53885-***I	D

DWG. NO. SD-53885-***I

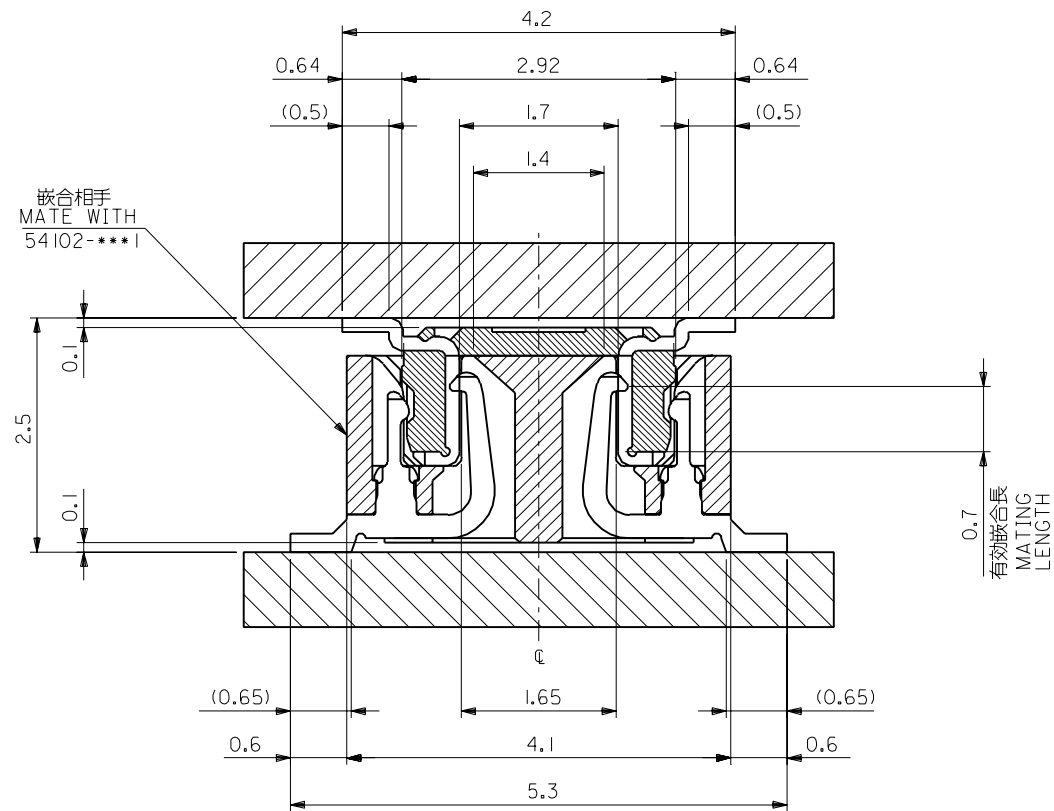
E

D

C
B
A
DIMENSIONS IN METRIC DO NOT SCALE DRAWING

A

8 7 6 5 4 3 2 1



嵌合断面図 (参考)
MATED DRAWING (REF.)

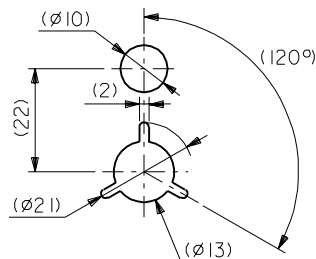
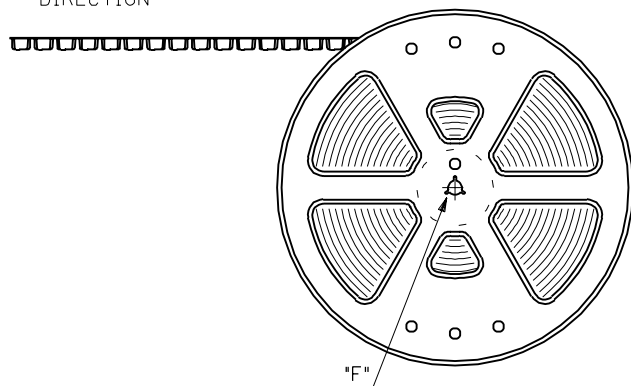
角度	ANGLE	公差
30°以上	OVER	+0.3
10°以上 30°未満	OVER 30 UNDER	+0.25
10°未満	UNDER	+0.2
一般公差 GENERAL TOLERANCES		

記号	変更内容	DR.	日付
LTR	REVISION RECORD	CHK.	DATE
D	変更 (JC2001-008)	Y.T.	'00/8/3
C	変更 (JC2000-0225)	M.T.	'99/9/30
B	変更 (JC90055)	N.S.	'98/7/23
A	変更 (JC70984)	S.P.	'97/6/20
O	新規作成 (JC70275)	S.S.	'96/9/5

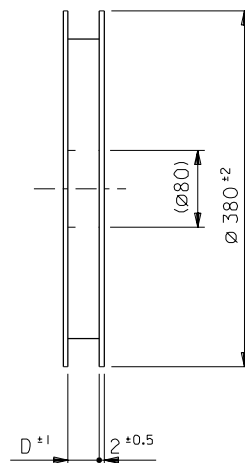
材料 MATERIAL	SHEET 1 OF 2 参照 REFER TO SHEET 1 OF 2
仕上げ FINISH	— //
適用電線範囲 WIRE RANGE	— //
被覆外径 INS. RANGE	— //
DRAWN BY '96/9/5 T.NIITSU	CHK'D BY '00/8/3 T.ITO
APP'D BY '00/8/3 M.FUKUSHIMA	尺度 SCALE — //

molex MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社
REVISE ONLY ON CAD SYSTEM
TITLE 名称 0.5 BOARD TO BOARD Conn PLUG Hgt=2.5mm
DWG. NO. (SHEET 2 OF 2) REV SD-53885-***I D

8 7 6 5 4 3 2 1

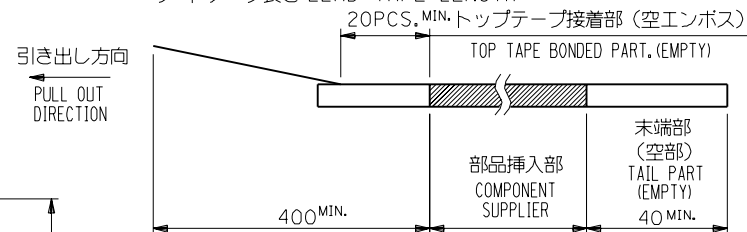
引き出し方向
PULL OUT
DIRECTION

DETAIL "F"



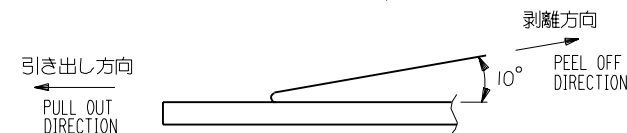
NOTES

- 製品詳細寸法については図面 SD-53885-***1 を参照下さい。
RE DETAILED DIMENSION, SEE SD-53885-***1
- 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



- 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.



- 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 (PS) <リサイクル材を含む>
POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>

						材料 MATERIAL	注記参照 SEE NOTES	molex MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社	
		D	変更 REVISED (JC2001-0421)	K.K.	T.J	00/12/6	仕上げ FINISH	—#—	REVISE ONLY ON CAD SYSTEM
角度 ANGLE	±3°	C	変更 REVISED (JC2000-0225)	M.H	T.J	99/9/29	適用電線範囲 WIRE RANGE	—#—	TITLE 名称
30 以上 OVER	+0.3	B	変更 REVISED (JC80021)	T.N	T.J	97/7/8	被覆外径 INS. RANGE	—#—	0.5 B+B Conn Plug Assy Hgt=2.5 Embstp Pkg
10 以上 30 未満 UNDER	+0.25	A	変更 REVISED (JC70445)	T.S	T.J	96/11/1	DRAWN BY %/ 9/ 5 T.NIITSU	CHK'D BY %/00/12/6 T.IITO	DWG. NO. (SHEET 1 OF 4) REV
10 未満 UNDER	+0.2	O	新規作成 PROPOSED (JC70278)	T.S	T.J	96/ 9/ 5	APP'D BY %/00/12/6 M.FUKUSHIMA	尺度 —#—	SD-53885-***8 D
一般公差 GENERAL TOLERANCES		記号 LTR	変更内容 REVISION RECORD	DR.	CHK.	日付 DATE			

E

D

C

B

A

:MM

DIMENSIONS IN METRIC DO NOT SCALE DRAWING

8

7

6

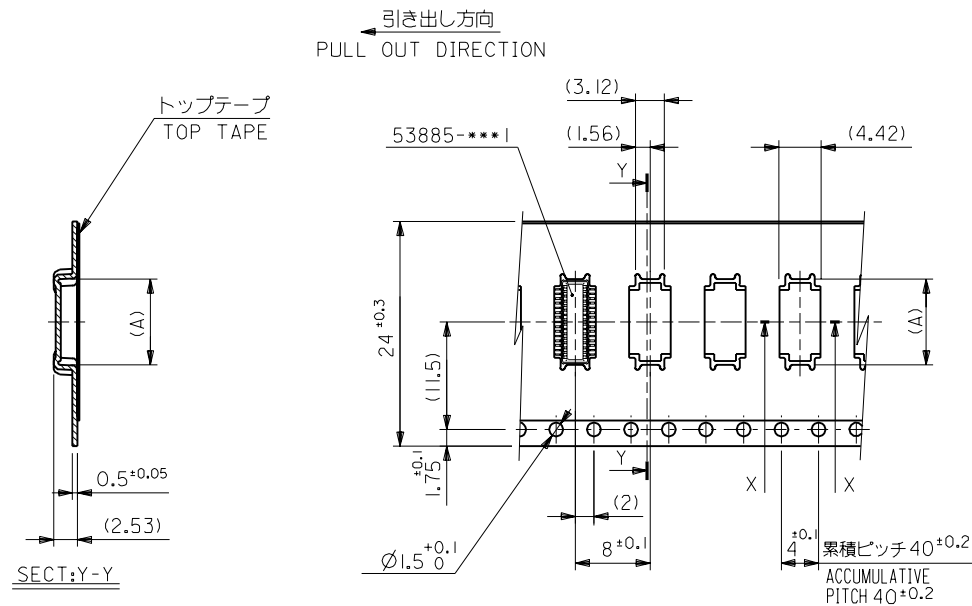
5

4

3

2

1



24mm幅キャリアテープ
24mm WIDTH CARRIER TAPE

24	25.5	14.15	53885-0508	50
		11.65	53885-0408	40
		9.15	53885-0308	30
キャリアテープ幅 CARRIER TAPE WIDTH	D	(A)	ENG.NO.	極致 CKT.

				材料 MATERIAL SHEET 1 OF 4 参照 REFER TO SHEET 1 OF 4	molex MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社
				仕上げ FINISH —#—	
				適用電線範囲 WIRE RANGE —#—	
				被覆外径 INS. RANGE —#—	
角度 ANGLE	$\pm 3^\circ$	D 変更 REVISED (JC2001-0421)	K.K.	00/12/6	REVISE ONLY ON CAD SYSTEM TITLE 名称 0.5 BtB Conn Plug Assy Hgt=2.5 Embstp Pkg
30 以上 OVER	± 0.3	C 変更 REVISED (JC2000-0225)	M.W.	99/9/30	
10 以上 30 未満 OVER UNDER	± 0.25	B 変更 REVISED (JC80021)	T.N.	97/7/8	
10 未満 UNDER	± 0.2	A 変更 REVISED (JC70445)	S.A.	96/11/1	
一般公差 GENERAL TOLERANCES	記号 LTR	変更内容 REVISION RECORD	DR. CHK.	日付 DATE	DRAWN BY 96/ 9/ 5 T.NIITSU
				APP'D BY 00/12/6 M.FUKUSHIMA	CHK'D BY 00/12/6 T.IITO
				尺度 SCALE —#—	DWG. NO. (SHEET 3 OF 4) REV SD-53885-***8 D

8

7

6

5

4

3

2

1

E

D

C

B

A

mm

DIMENSIONS IN METRIC DO NOT SCALE DRAWING

8

7

6

5

4

3

2

1

F

E

D

C

B

A

mm

DIMENSIONS IN METRIC DO NOT SCALE DRAWING

8

7

6

5

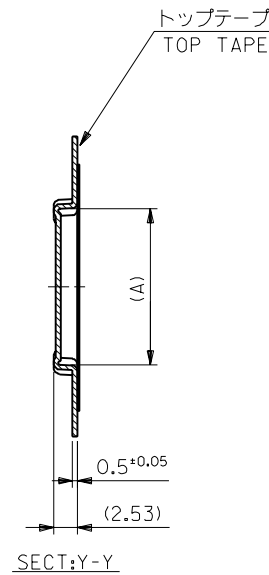
4

3

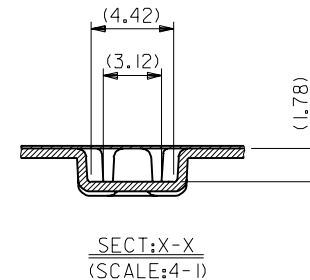
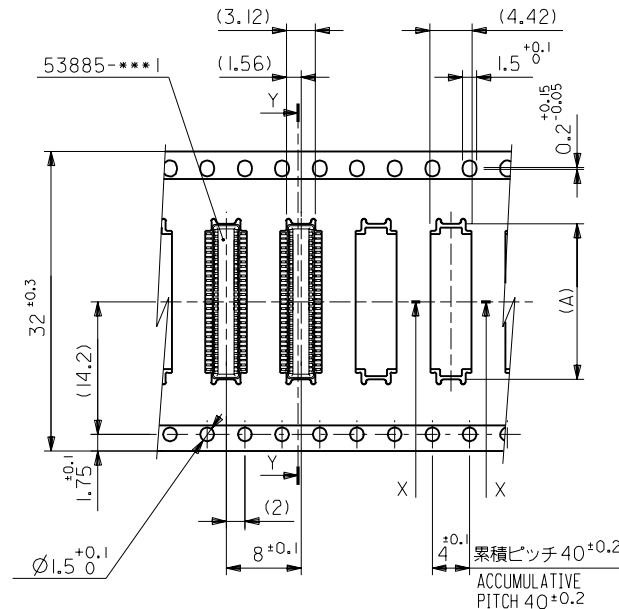
2

1

5949850.534



引き出し方向
PULL OUT DIRECTION



32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

32	33.5	19.15	53885-0708	70
キャリアテープ幅 CARRIER TAPE WIDTH	D	(A)	ENG.NO.	極致 CKT.
		16.65	53885-0608	60

角度 ANGLE		±3°					材料 MATERIAL SHEET 1 OF 4 参照 REFER TO SHEET 1 OF 4	molex MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社	
30 以上 OVER	±0.5	D 変更 REVISED (JC2001-0421)	±.K	T.A	00/12/6		仕上げ FINISH	REVISE ONLY ON CAD SYSTEM	
10 以上 30 未満 OVER UNDER	±0.25	C 変更 REVISED (JC2000-0225)	±.K	T.A	99/9/30		適用電線範囲 WIRE RANGE	TITLE 名称	
10 未満 UNDER	±0.2	B 変更 REVISED (JC800211)	±.K	T.A	91/1/18		被覆外径 INS. RANGE	0.5 B+B Conn Plug Assy Hgt=2.5 Embstp Pkg	
一般公差 GENERAL TOLERANCES	記号 LTR	変更内容 REVISION RECORD	DR. CHK.	日付 DATE	APP'D BY M.FUKUSHIMA	尺度 SCALE	DRAWN BY 91/1/18 T.NIITSU	CHK'D BY 00/12/6 T.ITO	DWG. NO. (SHEET 4 OF 4) REV
									SD-53885-***8 D