

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0556500288

Status:

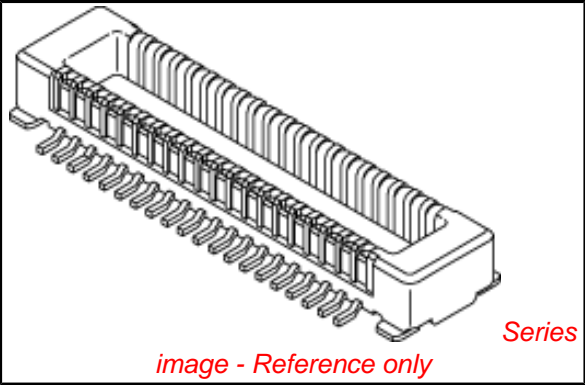
Active

Overview:

slimstack 050mm 020 pitch

Description:

0.50mm (.020") Pitch SlimStack™ Plug, Surface Mount, Dual Row, Vertical, 2.00mm (.079") Stack Height, with Solder Tab, 20 Circuits, Lead-free



Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-54363-044 \(PDF\)](#)

[Product Specification PS-54363-046 \(PDF\)](#)

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

General	
Product Family	PCB Headers
Series	55650
Application	Board-to-Board
Comments	Solder Tab Plating: Lead-free, Tin
Overview	slimstack 050mm 020 pitch
Product Name	SlimStack™

Physical	
Breakaway	No
Circuits (Loaded)	20
Circuits (maximum)	20
Color - Resin	Black
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
Mated Height (in)	0.079 In
Mated Height (mm)	2.00 mm
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Gold
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.000 In
PC Tail Length (mm)	0.00 mm
PCB Locator	No
PCB Retention	Yes
PCB Thickness Recommended (in)	0.000 In
PCB Thickness Recommended (mm)	0.00 mm
Packaging Type	Embossed Tape on Reel
Pitch - Mating Interface (in)	0.020 In
Pitch - Mating Interface (mm)	0.50 mm
Pitch - Term. Interface (in)	0.020 In
Pitch - Term. 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 Mating Part	No
Polarized to PCB	No
Shrouded	No

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

55650Series

Mates With

54363 PCB Receptacle

Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-25°C to +85°C
Termination Interface: Style	Surface Mount

Electrical

Current - Maximum per Contact	0.5A
Voltage - Maximum	50V AC (RMS)/DC

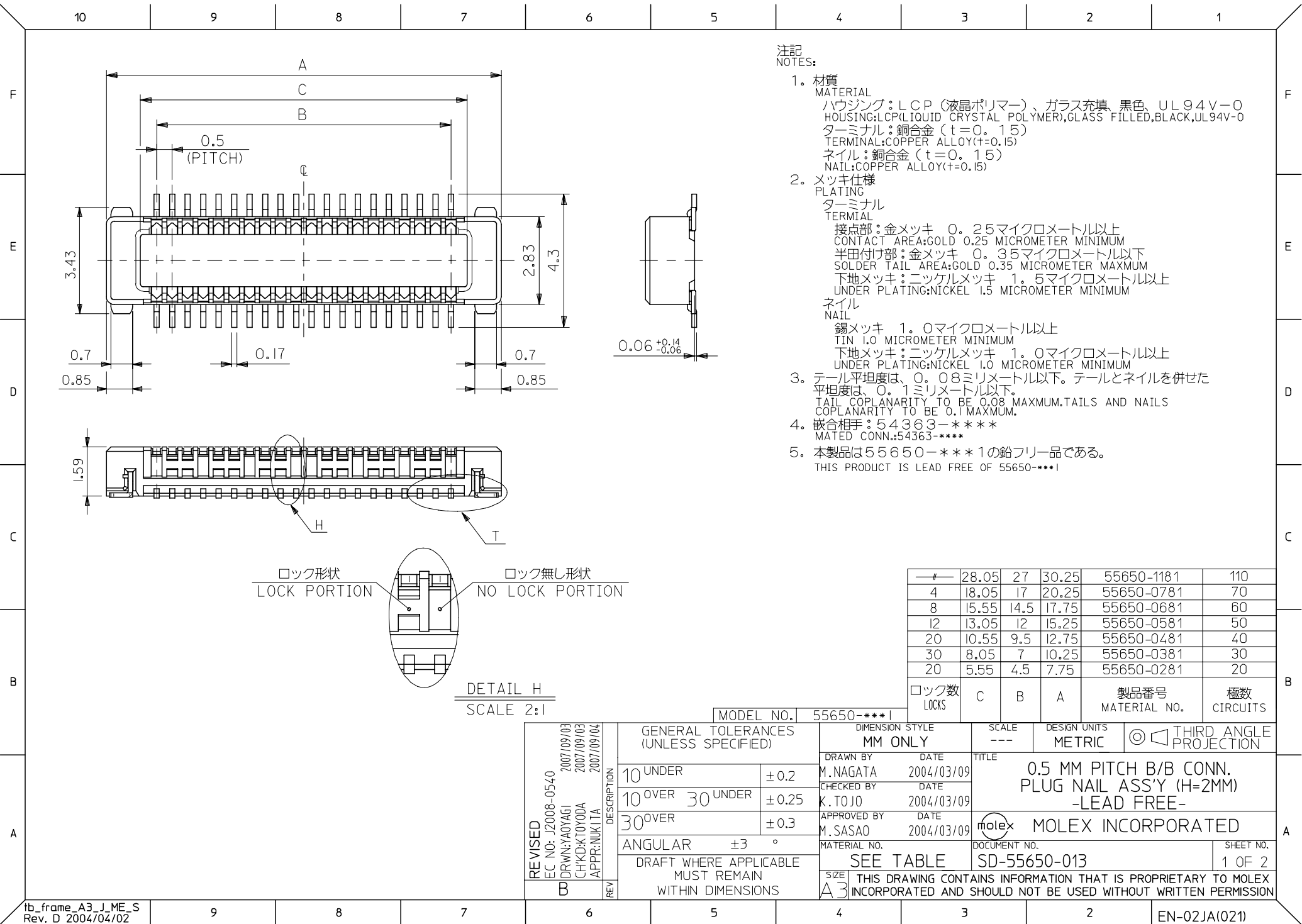
Material Info

Reference - Drawing Numbers

Packaging Specification	SPK-55650-001
Product Specification	PS-54363-044, PS-54363-046, RPS-54363-047
Sales Drawing	SD-55650-013, SD-55650-014

This document was generated on 05/27/2010

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注記
NOTES:

1. 材質

MATERIAL

ハウジング: LCP (液晶ポリマー)、ガラス充填、黒色、UL94V-0
HOUSING: LCP (LIQUID CRYSTAL POLYMER), GLASS FILLED, BLACK, UL94V-0
ターミナル: 銅合金 (t=0.15)
TERMINAL: COPPER ALLOY (t=0.15)
ネイル: 銅合金 (t=0.15)
NAIL: COPPER ALLOY (t=0.15)

2. メッキ仕様

PLATING

ターミナル

TERMINAL

接点部: 金メッキ 0.25マイクロメートル以上
CONTACT AREA: GOLD 0.25 MICROMETER MINIMUM
半田付け部: 金メッキ 0.35マイクロメートル以下
SOLDER TAIL AREA: GOLD 0.35 MICROMETER MAXIMUM
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 MINIMUM

ネイル

NAIL

錫メッキ 1.0マイクロメートル以上
TIN 1.0 MICROMETER MINIMUM
下地メッキ: ニッケルメッキ 1.0マイクロメートル以上
UNDER PLATING: NICKEL 1.0 MICROMETER MINIMUM

3. テール平坦度は、0.08ミリメートル以下。テールとネイルを併せた
平坦度は、0.1ミリメートル以下。

TAIL COPLANARITY TO BE 0.08 MAXIMUM. TAILS AND NAILS
COPLANARITY TO BE 0.1 MAXIMUM.

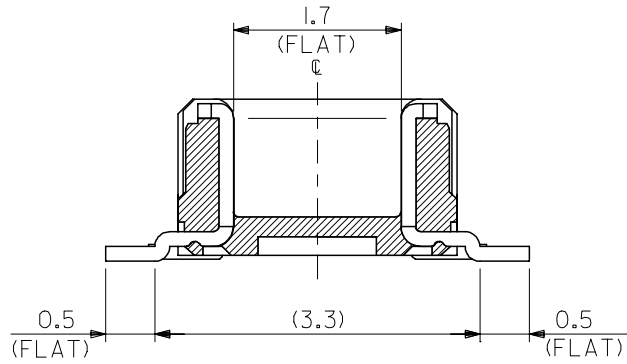
4. 嵌合相手: 54363-****

MATED CONN.: 54363-****

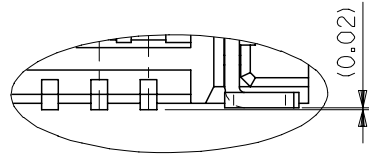
5. 本製品は55650-****1の鉛フリー品である。

THIS PRODUCT IS LEAD FREE OF 55650-****1

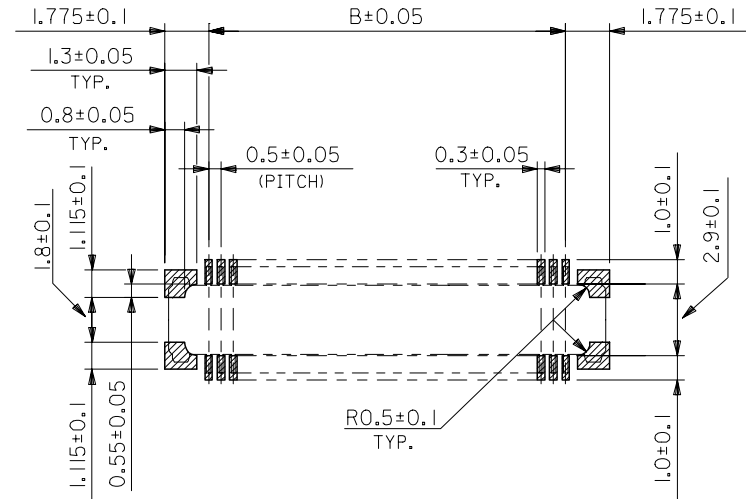
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4	18.05	17	20.25	55650-0781	70
8	15.55	14.5	17.75	55650-0681	60
12	13.05	12	15.25	55650-0581	50
20	10.55	9.5	12.75	55650-0481	40
30	8.05	7	10.25	55650-0381	30
20	5.55	4.5	7.75	55650-0281	20
ロック数 LOCKS	C	B	A	製品番号 MATERIAL NO.	極数 CIRCUITS



製品断面図 (半田付け部、吸着面寸法)
DETAIL FOR SOLDERING AND VACUUM AREA



DETAIL T
T部詳細



推奨基板寸法
RECOMMENDED PCB PATTERN LAYOUT
(SCALE 5:1)

REVISED EC NO: J2008-0540 DRAWN:YAOYAGI CHKD:KTOYODA APPR:NIKI TA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	±0.2	DRAWN BY M.NAGATA	DATE 2004/03/09	TITLE 0.5 MM PITCH B/B CONN. PLUG NAIL ASS'Y (H=2MM) -LEAD FREE-				
		10 OVER 30 UNDER	±0.25	CHECKED BY K.TOJO	DATE 2004/03/09					
		30 OVER	±0.3	APPROVED BY M.SASAO	DATE 2004/03/09	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 1		SD-55650-013		2 OF 2		
REV		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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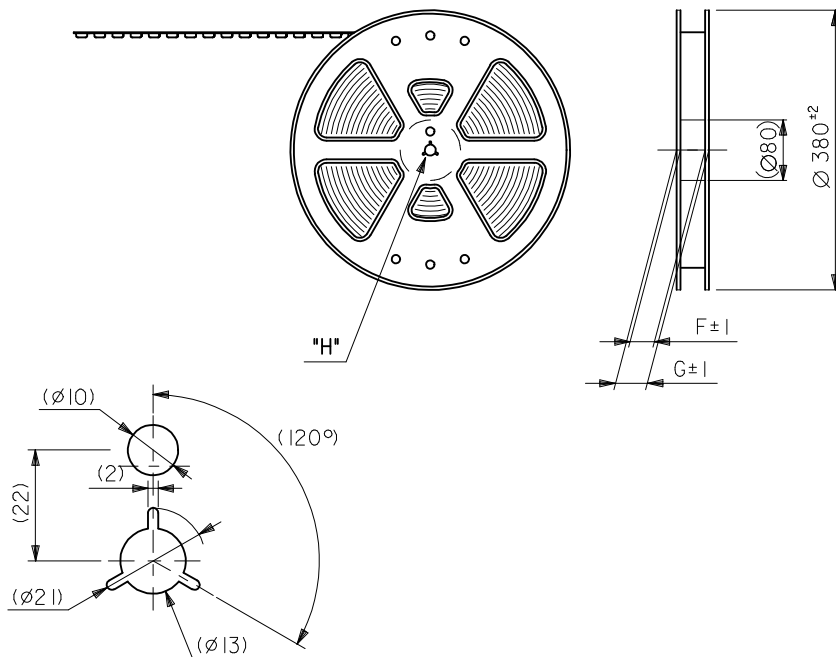
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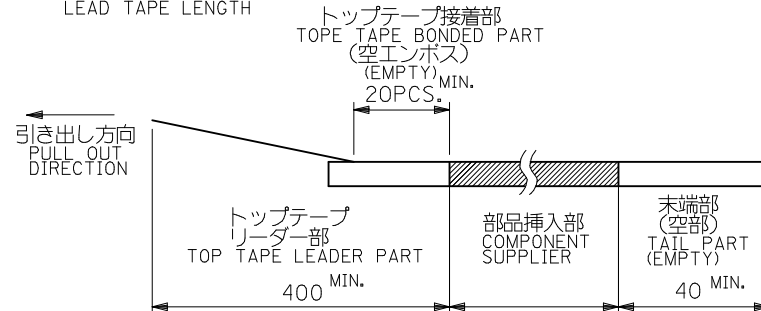
引き出し方向
PULL OUT DIRECTION



DETAIL "H"

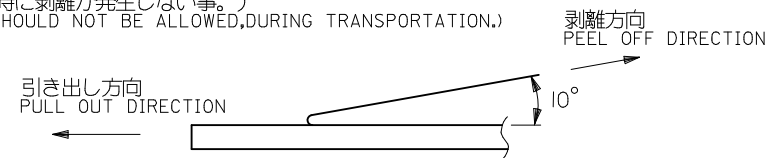
注)
NOTES

- 製品番号 55650-***81 詳細寸法については、製品単体図面を参照下さい。
IN THE PACKAGE PART NUMBER 55650-***81 DETAILED DIMENSIONS, SEE SALES DRAWING FOR CONNECTOR.
- 梱包数量: 2500個/リール
NUMBER OF CONNECTORS: 2500 PCS/REEL.
- リードテープ長さ
LEAD TAPE LENGTH




- トップテープの剥離強度: (剥離方向は下図参照)
PEELING OFF FORCE OF TOP TAPE (PELLING DIRECTION AS SHOWN IN FOLLOWING FIGURE.)
0. 1~1. 3N{ 10~130gf }

尚、本規格値は、出荷時に適用。
THIS REQUIREMENT SHOULD BE APPLIED AT SHIPMENT.
(但し、輸送時に剥離が発生しない事。)
(PEEL OFF SHOULD NOT BE ALLOWED, DURING TRANSPORTATION.)



- 材料
MATERIAL
キャリアテープ: ポリプロピレン (PP)
CARRIER TAPE: POLYPROPYLENE (PP)
トップテープ: PET, PE, PEF
TOP TAPE: PET, PE, PEF
リール: ポリスチレン (PS) <リサイクル材を含む>
REEL: POLYSTYRENE (PS) <RECYCLE MATERIAL CONTAINED>

- 本製品は55650-***8の鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 55650-***8

MATERIAL 材料	注記参照 SEE NOTES	REVISED EC NO: J2009-0552 DRWN:YOSHIDAM 2008/12/04 CHKD:THARUYAMA 2008/12/04 APPR:NUKITA 2008/12/08	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
FINISH 仕上げ	注記参照 SEE NOTES			10 UNDER	± 0.2	DRAWN BY M. NAGATA	DATE 2004/03/09	TITLE EMBOSSED TAPE PACKAGE FOR 55650-**81 -LEAD FREE-		
				10 OVER 30 UNDER	± 0.25	CHECKED BY K. TOJO	DATE 2004/03/09			
				30 OVER	± 0.3	APPROVED BY M. SASAO	DATE 2004/03/09			
WIRE RANGE 適用電線範囲	— # —	B	REV	ANGULAR ±3 °		MATERIAL NO. SEE SHEET 2		DOCUMENT NO. SD-55650-014	SHEET NO. 1 OF 2	
INS. RANGE 被覆外径	— # —			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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10 9 8 7 6 5 4 3 2 1

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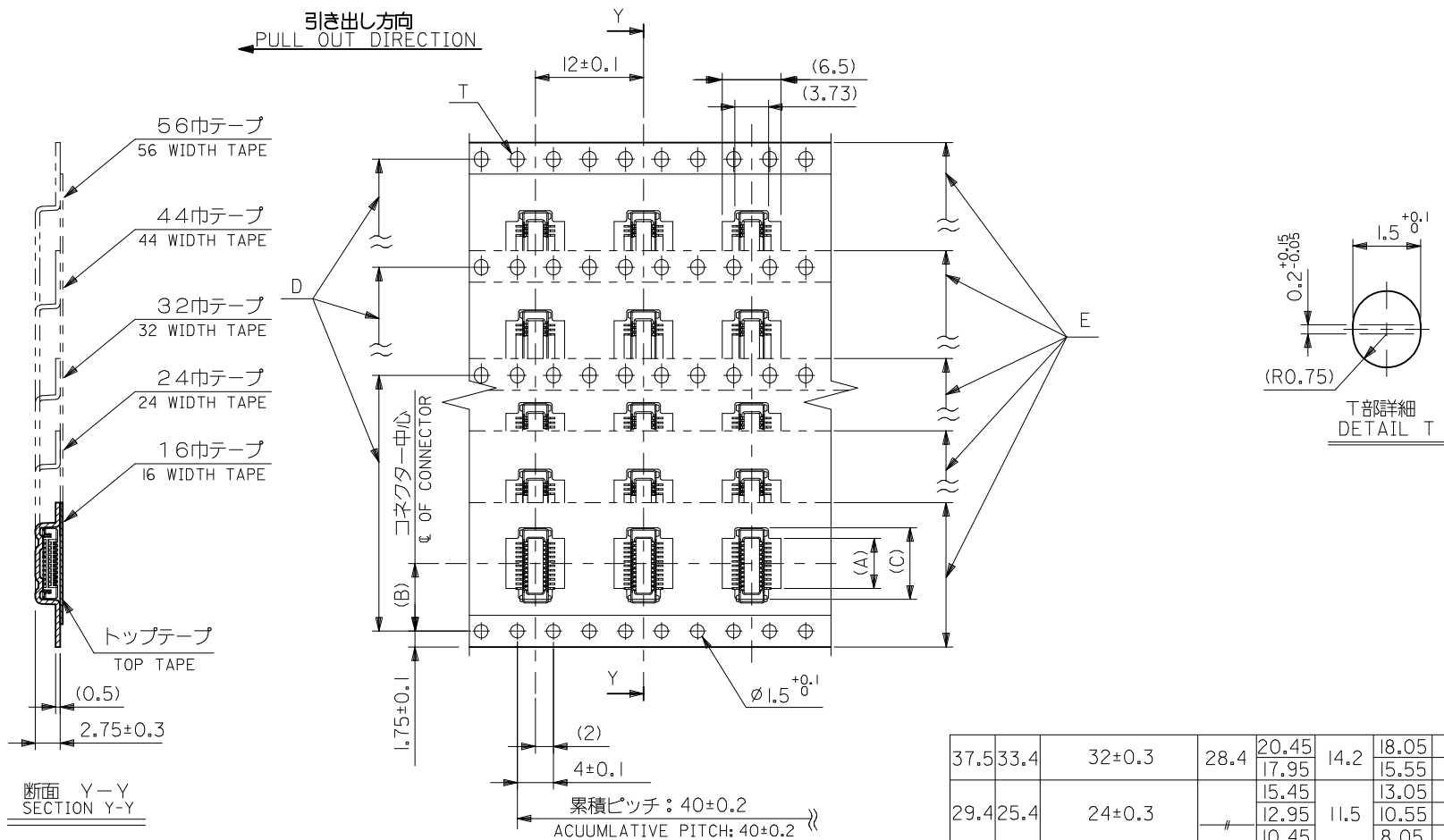
E

D

C

B

A



37.5	33.4	32±0.3	28.4	20.45 17.95	14.2	18.05 15.55	55650-0788	70
				15.45		13.05	55650-0688	60
29.4	25.4	24±0.3	#	12.95	11.5	10.55	55650-0588	50
				10.45		8.05	55650-0488	40
21.4	17.4	16±0.3		7.95	7.5	5.55	55650-0388	30
							55650-0288	20
G	F	E キャリアテープ幅 CARRIER TAPE WIDTH	D	(C)	(B)	(A)	製品番号 MATERIAL NO.	極数 CIRCUITS

MATERIAL 材 料		注記参照 SEE NOTES		REVISED EC NO: J2009-0552 DRWN: YOSHIDA 2008/12/04 CHKD: THARUYAMA 2008/12/04 APPR: NUKITA 2008/12/08	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
FINISH 仕 上 げ	注記参照 SEE NOTES	10 UNDER	±0.2			DRAWN BY M. NAGATA	DATE 2004/03/09	TITLE EMBOSSSED TAPE PACKAGE FOR 55650-**81 -LEAD FREE-					
		10 OVER 30 UNDER	±0.25			CHECKED BY K. TOJO	DATE 2004/03/09						
		30 OVER	±0.3			APPROVED BY M. SASAO	DATE 2004/03/09						
WIRE RANGE 適用電線範囲	— # —	ANGULAR ±3 °				MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-55650-014		SHEET NO. 2 OF 2			
INS. RANGE 被 覆 外 径	— # —	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									