



Part Number : 513870578

Series Number : 51387

Product Category : I/O Connectors

Product Description : Mini USB, B-Receptacle, Right-Angle, Short Body, Surface Mount Solder Tails and Through Hole Shell Tabs, with Cover Tape, Lead-Free

Status : Active

Documents & Resources

Drawings

Drawing 513870578_sd.pdf

Packaging Design Drawing SPK-51387-002-001.pdf

3D Models and Design Files

3D Model 513870578_stp.zip

Specifications

Product Specification PS-51387-002-001.pdf

Product Environment Compliance

Compliance

GADSL/IMDS	Compliant with Exemption 44; 33; 34
China RoHS	
EU ELV	Not Relevant
Low-Halogen Status	Low-Halogen per IEC 61249-2-21
REACH SVHC	Not Contained per D(2024)4144-DC (27 June 2024)
EU RoHS	Compliant per EU 2015/863

Multiple Part Product Compliance Statements

- Eu RoHS
- REACH SVHC
- Low-Halogen

Multiple Part Industry Compliance Documents

- IPC 1752A Class C
- IPC 1752A Class D
- Molex Product Compliance Declaration

- IEC-62474
- chemSHERPA (xml)

EU RoHS Certificate of Compliance

Part Details

General

Status	Active
Category	I/O Connectors
Series	51387
Description	Mini USB, B-Receptacle, Right-Angle, Short Body, Surface Mount Solder Tails and Through Hole Shell Tabs, with Cover Tape, Lead-Free
Application	Wire-to-Board
Component Type	Receptacle
Product Family	USB Connectors: USB Type-A, USB Type-B, and USB Type-C Plugs and Receptacles
Product Name	USB
Standard	USB 2.0
Type	Mini-B
UPC	822348105311

Electrical

Current - Maximum per Contact	1.0A
Shield Type	Full Shield
Shielded	Yes
Voltage - Maximum	30V AC (RMS)/DC

Physical

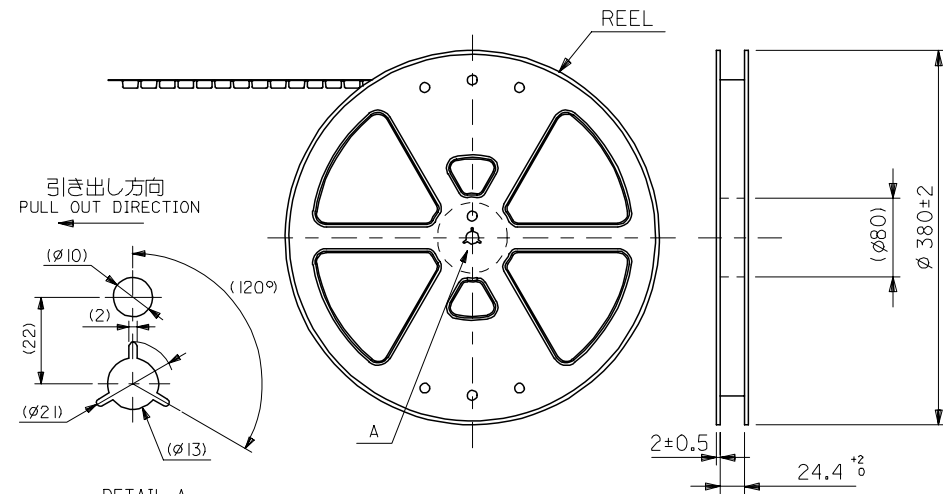
Circuits (Loaded)	5
Circuits (maximum)	5
Color - Resin	Black
Gender	Female
Lock to Mating Part	Yes
Material - Metal	High Performance Alloy (HPA), Phosphor Bronze

Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Mounting Style	Top-Mount
Net Weight	0.443/g
Number of Rows	1
Orientation	Right Angle
Packaging Type	Embossed Tape on Reel
Panel Mount	No
PCB Locator	Yes
PCB Retention	Yes
Pitch - Mating Interface	0.80mm
Pitch - Termination Interface	0.80mm
Plating min - Mating	0.762µm
Plating min - Termination	1.016µm
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	1
Temperature Range - Operating	0° to +50°C
Termination Interface Style	Surface Mount
Waterproof / Dustproof	No

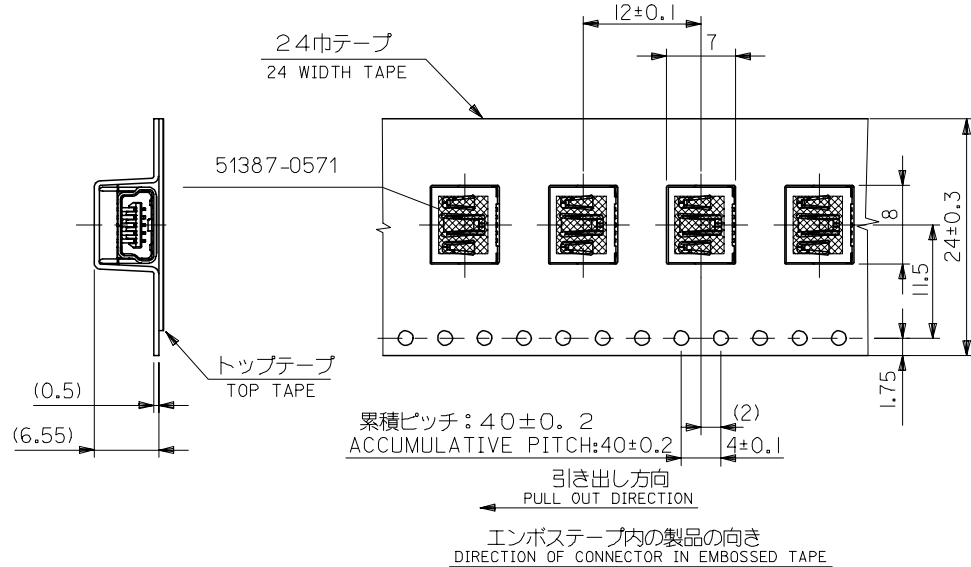
Solder Process Data

Max-Duration	3
Lead-Free Process Capability	REFLOW
Max-Cycle	1
Max-Temp	250

10 9 8 7 6 5 4 3 2 1

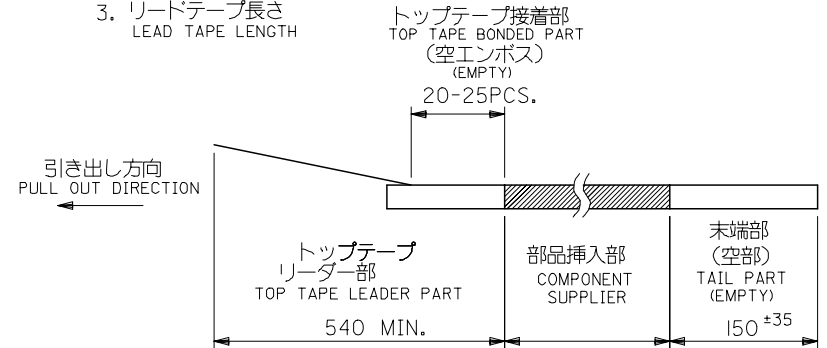


DETAIL A



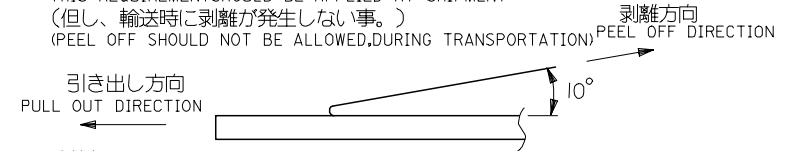
NOTES

- 製品詳細寸法は製品単体図面を参照して下さい。
For detail of connector dimensions, please see the drawing of connector itself (not packaged).
- 梱包数量: 1000 個/リール
NUMBER OF CONNECTORS: 1000 PCS/REEL
- リードテープ長さ
LEAD TAPE LENGTH



- トップテープの剥離強度: 0.1 ~ 1.3 N (10 ~ 130gf)
(剥離方向は下図参照) キャリアテープ幅: 24mm
PEEL-OFF FORCE OF TOP TAPE: 0.1~1.3 N (10~130gf)
(PEELING DIRECTION AS SHOWN IN FOLLOWING FIG.)

尚、本規格値は、出荷時に適用。
THIS REQUIREMENTS 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
CARRIER TAPE: POLYPROPYLENE
トップテープ: ポリエステル, ポリエチレン
TOP TAPE: POLYESTER, POLYETHYLENE
リール: ポリスチレン
REEL: POLYSTYRENE

- この製品は51387-0528の鉛フリー品です。
THIS PRODUCT IS 'LEAD FREE' OF 51387-0528

REVISED EC NO: J2007-3218 DRWN: YADYAGI CHKD: KTOYODA APPR: NUKITA	DESCRIPTION 2007/05/25 2007/05/29 2007/05/29	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
		10 UNDER	±0.2	DRAWN BY DATE A. IDA 2004/01/14		TITLE USB SERIES MINI-B SHORT REC. ASS'Y -LEAD FREE-					
		10 OVER 30 UNDER	±0.25	CHECKED BY DATE N. TAKASE 2004/01/14							
		30 OVER	±0.3	APPROVED BY DATE J. MIYAZAWA 2004/01/14		MOLEX INCORPORATED					
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.				SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-51387-004				1 OF 1	
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							