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Part Number: [0513870530](#)

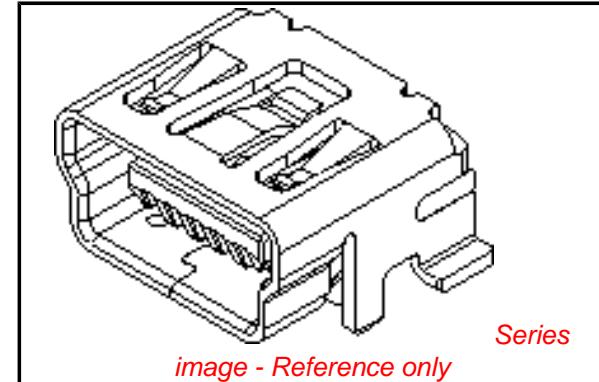
Status: **Active**

Description: USB On-The-Go (OTG) Mini-B Receptacle, Right Angle, Short Body, SMT Solder Tails and Through Hole Shell Tabs, with Cover Tape, Reflow DIP Type, Lead-free

Documents:

[3D Model](#)
[Drawing \(PDF\)](#)

[Product Specification PS-51387-003 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)



General

Product Family
Series
Application
Component Type
Product Name
Type

I/O Connectors
[51387](#)
Wire-to-Board
Receptacle
USB, USB OTG (On-The-Go)
Mini-B

Physical

Boot Color
Circuits (Loaded)
Circuits (maximum)
Color - Resin
Gender
Lock to Mating Part
Material - Metal
Material - Plating Mating
Material - Plating Termination
Material - Resin
Number of Rows
Orientation
PCB Locator
PCB Retention
Packaging Type
Panel Mount
Pitch - Mating Interface (in)
Pitch - Mating Interface (mm)
Pitch - Term. Interface (in)
Pitch - Term. Interface (mm)
Plating min: Mating (μ in)
Plating min: Mating (μ m)
Plating min: Termination (μ in)
Plating min: Termination (μ m)
Polarized to Mating Part
Polarized to PCB
Ports
Surface Mount Compatible (SMC)
Temperature Range - Operating
Termination Interface: Style
Waterproof / Dustproof
Wire Size AWG

N/A
5
5
Black
Receptacle
Yes
High Performance Alloy (HPA), Phosphor Bronze
Gold
Tin
High Temperature Thermoplastic
1
Right Angle
Yes
Yes
Embossed Tape on Reel
No
0.031 in
0.80 mm
0.031 in
0.80 mm
30.4
0.76
40
1
Yes
Yes
1
Yes
0°C to +50°C
Surface Mount
No
N/A

Electrical

Current - Maximum per Contact
Shield Type
Shielded
Voltage - Maximum

1A
Full Shield
Yes
30V AC (RMS)/DC

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status



Halogen-Free
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
[51387Series](#)

Mates With
[59204-9405](#)

Solder Process Data

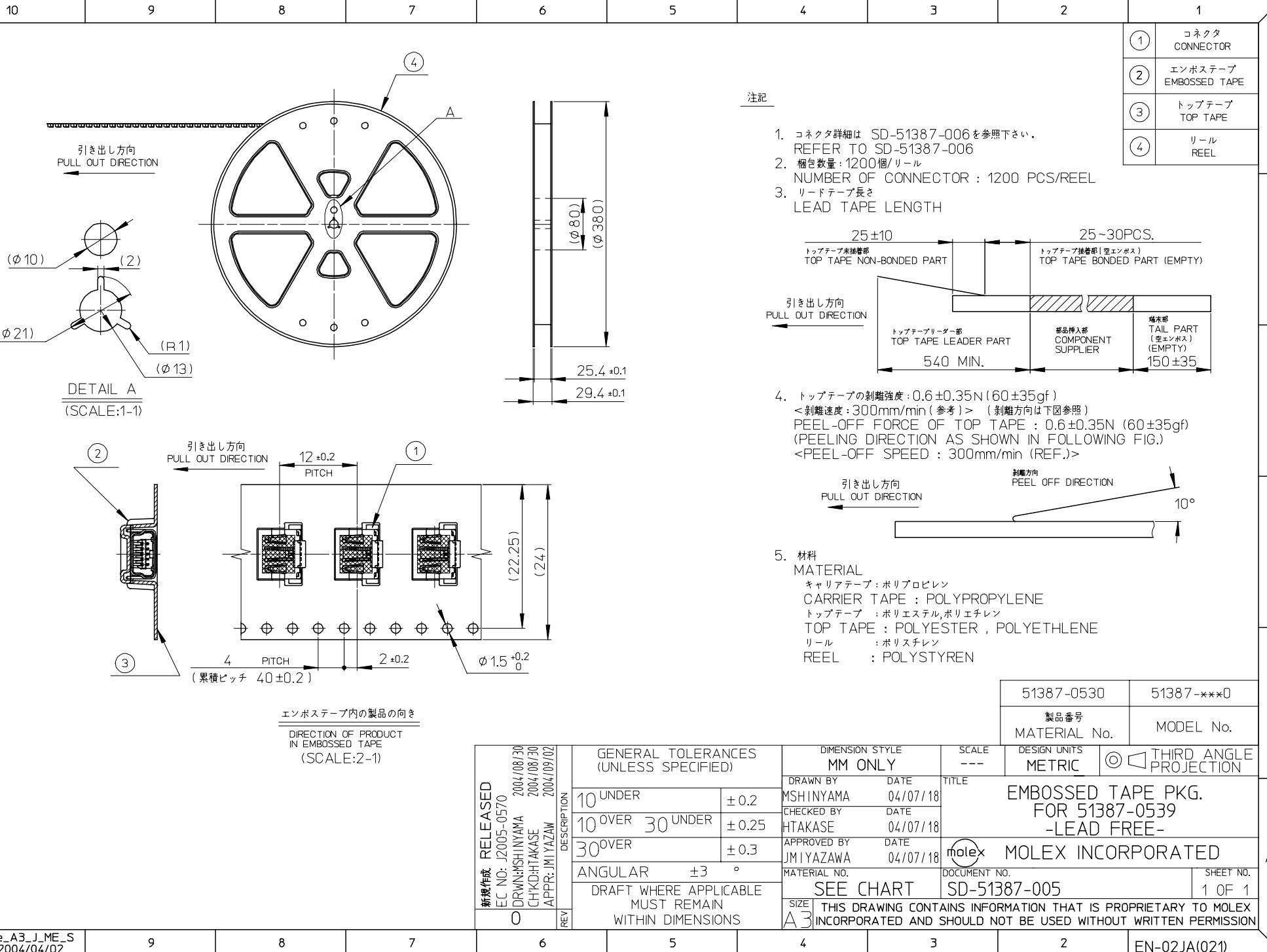
Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	245

Material Info**Reference - Drawing Numbers**

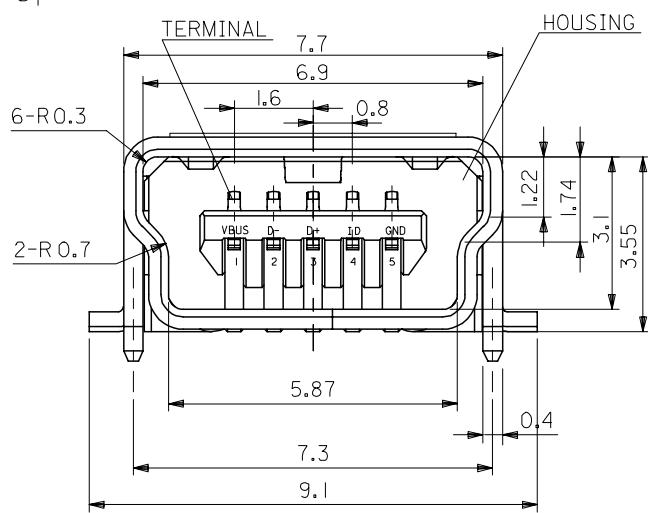
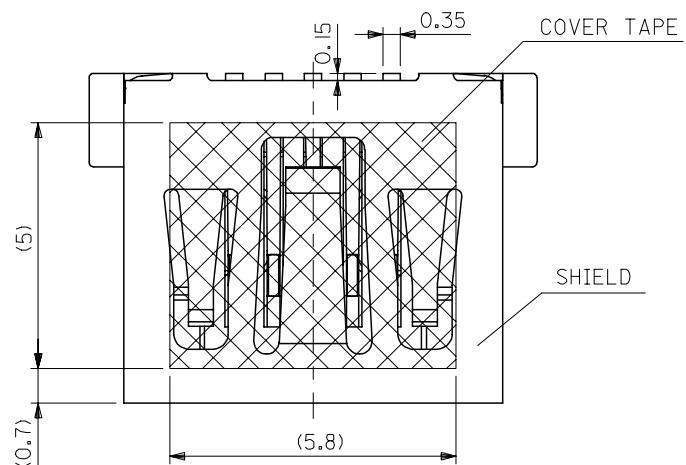
Packaging Specification	SPK-51387-001
Product Specification	PS-51387-003, RPS-51387-003, RPS-51387-005
Sales Drawing	SD-51387-005, SD-51387-006

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10 9 8 7 6 5 4 3 2 1



注記
NOTES

1. 材質

MATERIAL

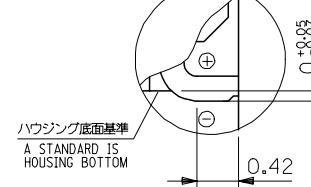
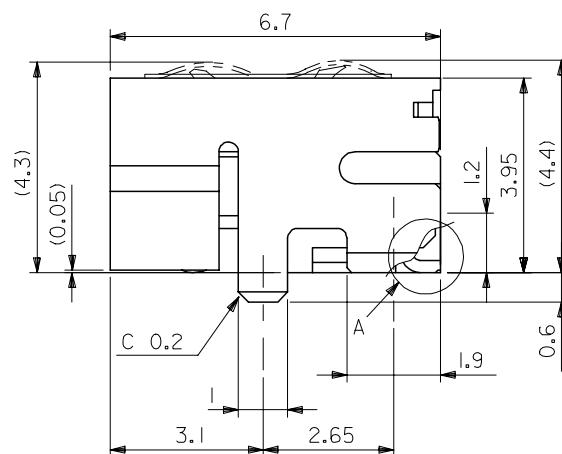
ハウジング：耐熱樹脂 ガラス充填 黒色, UL 94V-0
HOUSING:HEAT RESISTANT PLASTIC,
GLASS FILLED,BLACK,UL94V-0
ターミナル：銅合金 ($t=0.25$)
TERMINAL:COPPER ALLOY($t=0.25$)
シールド：銅合金 ($t=0.4$)
SHIELD :COPPER ALLOY($t=0.4$)
カバー テープ：ポリイミド ($t=0.08$)
COVER TAPE:POLYIMIDE ($t=0.08$)

2. メッキ仕様
PLATING
ターミナル
TERMINAL

接点部：金メッキ
CONTACT AREA:GOLD
半田付け部：錫メッキ
SOLDER TAIL AREA:TIN
下地部：ニッケルメッキ
UNDER PLATING:NICKEL
：錫メッキ
:TIN
下地部：ニッケル
UNDER PLATING:NICKEL

3. 平坦度は0.1mm MAX.
COPLANARITY 0.1mm MAX.

シールド
SHIELD



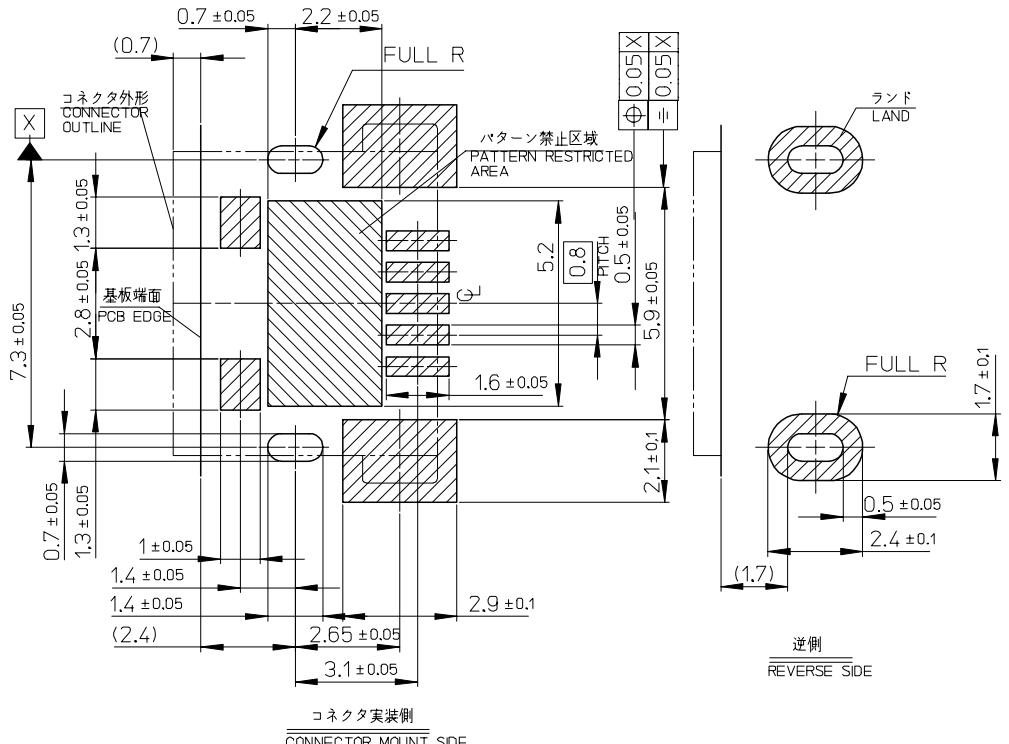
DETAIL A
(SCALE 20:1)

5 51387-0539
極数 製品番号
CKT. MATERIAL NO.

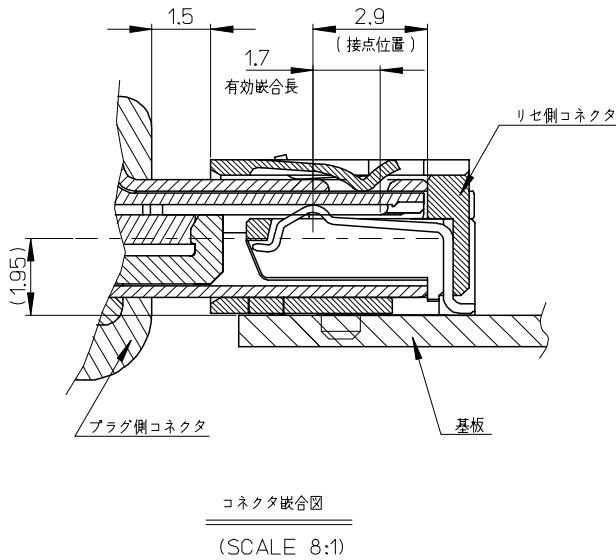
THIRD ANGLE
PROJECTION

REVISED EC NO: I2007-2931 CRWNYADYAG CHKD:YMEDA APPR:NUKITA REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY	SCALE 10:1	DESIGN UNITS METRIC	TITLE USB SERIES MINI-B REC. ASS'Y (REFLOW DIP TYPE) -LEAD FREE-
	DESCRIPTION	DRAWN BY MSHINYAM DATE 04/06/18				
10 UNDER	± 0.2	CHECKED BY HTAKASE DATE 04/06/18				
10 OVER 30 UNDER	± 0.25	APPROVED BY JMIYAZAW DATE 04/06/18				
30 OVER	± 0.3	MATERIAL NO.				
ANGULAR	$\pm 3^\circ$	SEE TABLE				
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			

10 9 8 7 6 5 4 3 2 1



推奨基板寸法 (SCALE 8:1)
RECOMMENDED PCB PATTERN LAYOUT



コネクタ嵌合図
(SCALE 8:1)

REVISED		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 10:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
EC NO: J2007-2931	2007/04/19	DRAWN BY	MSHINYAM	DATE	04/06/18	TITLE	USB SERIES MINI-B REC. ASS'Y (REFLOW DIP TYPE) -LEAD FREE-	
C DRWNYADYAG	2007/04/23	CHECKED BY	HTAKASE	DATE	04/06/18	REVISED	MOLEX INCORPORATED	
CHKD:YMAEDA	2007/04/24	APPROVED BY	JMIZAWA	DATE	04/06/18	REV	DOCUMENT NO.	
APPR:NUKITA		MATERIAL NO.					SD-51387-006	
		SEE SHEET 1					SHEET NO. 2 OF 2	
		DRAFT WHERE APPLICABLE					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
		MUST REMAIN WITHIN DIMENSIONS						