



PRODUCT SPECIFICATION



LANGUAGE
JAPANESE
ENGLISH

【1. 適用範囲 SCOPE】

本仕様書は、 _____ 殿 に納入する

USB SERIES MINI-B, -AB コネクタ について明記する。

This doc. covers the USB SERIESE MINI-B , -AB CONNECTOR .

【2. 製品名称及び型番 PRODUCT NAME AND PART NUMBER】

製品名称 Product Name	製品番号 Part Number
リセプタクル アッセンブリ MINI-A B (JACK) 無鉛 Receptacle Assembly Mini-A B (JACK) DIP -LEAD FREE-	5 6 5 7 9 - 0 5 1 9
リセプタクル アッセンブリ MINI-B (JACK) 無鉛 Receptacle Assembly Mini-B (JACK) DIP -LEAD FREE- -HALOGEN FREE-	5 4 8 1 9 - 0 5 1 8
リセプタクル アッセンブリ MINI-B (JACK) 無鉛 Receptacle Assembly Mini-B (JACK) DIP -LEAD FREE-	5 4 8 1 9 - 0 5 1 9
リセプタクル アッセンブリ MINI-B (JACK) 無鉛 Receptacle Assembly Mini-B (JACK) SMT -LEAD FREE-	5 4 8 1 9 - 0 5 7 9
5 4 8 1 9 - 0 5 7 9 エンボス梱包品 無鉛 Embossed Tape Package for 54819-0579 -LEAD FREE-	5 4 8 1 9 - 0 5 7 2
リセプタクル アッセンブリ MINI-A B (JACK) 無鉛 Receptacle Assembly Mini-A B (JACK) SMT -LEAD FREE-	5 6 5 7 9 - 0 5 7 9
5 6 5 7 9 - 0 5 7 9 エンボス梱包品 無鉛 Embossed Tape Package for 56579-0579 -LEAD FREE-	5 6 5 7 9 - 0 5 7 6
リセプタクル アッセンブリ MINI-B (JACK) 無鉛 Receptacle Assembly Mini-B (JACK) DIP2 -LEAD FREE-	5 4 8 1 9 - 0 5 8 2
5 4 8 1 9 - 0 5 8 2 エンボス梱包品 無鉛 Embossed Tape Package for 54819-0582 -LEAD FREE-	5 4 8 1 9 - 0 5 8 9

REV.	A	B	D																	
SHEET	1-15	1-15	1-15																	
REVISE ON PC ONLY							TITLE:													
D	REVISED SH2012-0121 XJSong 2011/10/21						USB SERIES MINI-A TO MINI-B													
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	DESIGN CONTROL SH						STATUS	E.SUZUKI	K.TOJO	M.SASAO	2004/04/05									
DOCUMENT NUMBER														FILE NAME	SHEET					
PS-56579-015														PS56579015.doc	1 of 15					



PRODUCT SPECIFICATION



LANGUAGE
JAPANESE
ENGLISH

【3. 定格 RATINGS】

項目 Item	規格 Standard	
最大許容電圧 Rated Voltage (Maximum)	30V	[AC (実効値 rms) / DC]
最大許容電流 Rated Current (Maximum)	1.0A	
使用温度範囲 Operating Temperature Range	-20°C ~ +85 °C * 1 From -20 to +85 °C	
保存温度範囲 Shipping and Storage Temperature Range	-40°C ~ +85 °C * 1 From -40 to +85 °C	
Ambient Temperature (testing)	25+/-2 °C	

* 1 : 通電による温度上昇分も含む。
Including terminal temperature rise.

【4. 性能 PERFORMANCE】

標準状態：指定がない限り測定は温度5~35℃、湿度45~85%、気圧85~106kPaにて行う。

Standard atmospheric conditions:

Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows.

- Ambient temperature : 5°C to 35°C
- Relative humidity : 45% to 85%
- Air pressure : 85kPa to 106kPa

以下の項目に関して、特に指定の無い場合嵌合相手は59205シリーズとする。

Regarding following test condition, Mated connector is 59205 series unless otherwise specified.

REV.	A	B	D																	
SHEET	1-15	1-15	1-15																	
REVISE ON PC ONLY							TITLE:													
D	REVISED SH2012-0121 XJSong 2011/10/21						USB SERIES MINI-A TO MINI-B													
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DOCUMENT NUMBER PS-56579-015														FILE NAME PS56579015.doc	SHEET 2 of 15					



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

4-1. 電氣的性能 Electrical Performance

項 目 Item		条 件 Test Condition	規 格 Requirement
4-1-1	接触抵抗 Contact Resistance	コネクタを嵌合させ、開放電圧20mV以下、短絡電流100mA以下にて測定する。 但し電線の導体抵抗は除く。(6項参照) (EIA-364-23) Mate connectors, measure by dry circuit, 20mV maximum, 100mA maximum. Except wire conductor resistance. (refer to 6 clause) (EIA-364-23)	50 milliohms maximum 初期及び5000回 挿抜後 Initial and after Mate/ Un-mate 5000 cycles
4-1-2	絶縁抵抗 Insulation Resistance	コネクタを嵌合及び未嵌合状態にし、隣接するターミナル間及びターミナル、アース間にDC100Vを印加し測定する。(EIA-364-21) Mate/un-mate connectors, apply 100V DC between adjacent terminals or ground. (EIA-364-21)	100 Megohm minimum
4-1-3	耐電圧 Dielectric Strength	コネクタを嵌合及び未嵌合状態にし、隣接するターミナル間及びターミナル、アース間にAC(rms) 100V(実効値)を1分間印可する。 (EIA-364-20) Mate/Un-mate connectors, apply 100V AC(rms) for 1 minute between adjacent terminals or ground.(EIA-364-20)	異常なきこと No Breakdown
4-1-4	温度上昇 Temperature Rise	コネクタを嵌合させ、最大許容電流を通电し、コネクタの温度上昇分を測定する。(EIA-364-70) Mate connectors and measure the temperature rise of contact when the maximum AC rated current is passed. (EIA-364-70)	温度上昇 Temperature Rise 30°C maximum
4-1-5	静電容量 Capacitance	未嵌合コネクタの隣接する回路間を1kHzで測定する。(EIA-364-30) Measured between adjacent circuits of unmated connectors at 1kHz.(EIA-364-30)	2pF maximum
4-1-6	ケーブルインピーダンス Cable Impedance	試験治具にケーブルを繋ぎ、TDRにて測定する。装置は次ページ参照。 Connect the cable to test fixture, measure by TDR. Measurement configuration are next pages.	<USB1.1> Diff.Impedance(rt=4ns) 76.5~103.5 ohms
			<USB2.0> Diff.Impedance(rt=0.5ns) 76.5~103.5 ohms Com.Impedance(rt=0.5ns) 21~39 ohms

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D

SEE SHEET 1 OF 15

TITLE:

USB SERIES MINI-A TO MINI-B

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製品仕様書

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REV.

DESCRIPTION

DOCUMENT NUMBER

PS-56579-015

FILE NAME

PS56579015.doc

SHEET

3 of 15

EN-37-1(019)

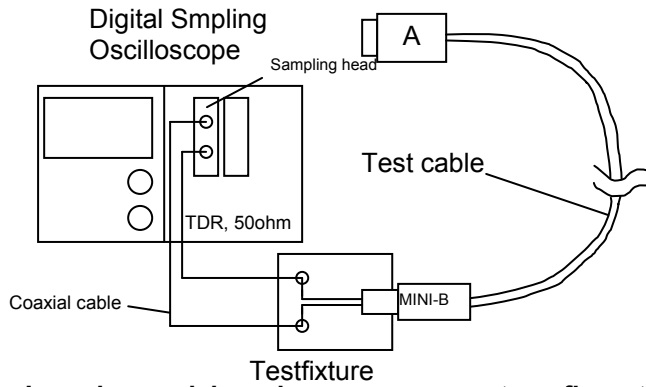


PRODUCT SPECIFICATION



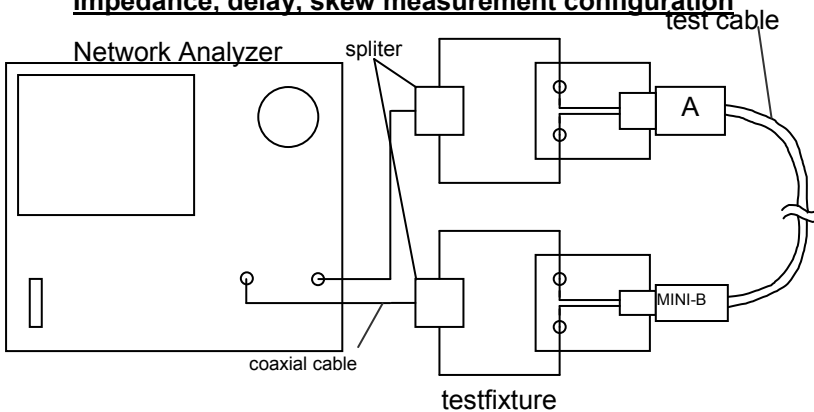
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JAPANESE
ENGLISH



Impedance, delay, skew measurement configuration

Frequency (MHz)	Attenuation [max.] (dB/cable)
0.064	0.08
0.256	0.11
0.512	0.13
0.772	0.15
1	0.20
4	0.39
8	0.57
12	0.67
24	0.95
48	1.35
96	1.90
※ 200	3.20
※ 400	5.80



Attention measurement configuration

※<USB2.0>

項目 Item	条件 Test Condition	規格 Requirement
4-1-7 減衰量 Attenuation	試験治具にコネクタを嵌合させ、ネットワークアナライザにて測定する。装置は上記参照。 Connect connector to attenuation test fixture, measure by Network Analyzer. Measurement configuration are upper pages.	上記参照 Reference upper pages
4-1-8 伝播遅延 Propagation Delay	試験治具にケーブルを繋ぎ、TDRにて測定する。装置は上記参照。 Connect the cable to test fixture, measure by TDR. Measurement configuration are upper pages.	<USB 1.1> 26ns/cable max.
		<USB 2.0> 5.2ns/m max.
4-1-9 伝播遅延差 Propagation Delay Skew	試験治具にケーブルを繋ぎ、TDRにて測定する。装置は上記参照。 Connect the cable to test fixture, measure by TDR. Measurement configuration are upper pages.	<USB 1.1> 400ps/cable max.
		<USB 2.0> 100ps/cable max.

REVISE ON PC ONLY

D

SEE SHEET 1 OF 15

REV.

DESCRIPTION

TITLE:

USB SERIES MINI-A TO MINI-B

-LEAD FREE-

製品仕様書

THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DOCUMENT NUMBER

PS-56579-015

FILE NAME

PS56579015.doc

SHEET

4 of 15

EN-37-1(019)



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

4-2. 機械的性能、その他 Mechanical Performance and others

項目 Item		条件 Test Condition	規格 Requirement	
4-2-1	初回挿入力／ 初回抜去力 First Time Mating and First Time Un-mating Force	1分間に12.5mm以下の速さで挿入、抜去する。 (EIA-364-13) Mate and un-mate connector at maximum rate of 12.5mm per minute. (EIA-364-13)	初回挿入力 First Time Mating Force	35N (3.57kgf) maximum
			初回抜去力 First Time Un-Mating Force	7N (0.71kgf) minimum
4-2-2	繰り返し挿抜 Repeated Mate / Unmate	1時間に200回以下の速さで挿入、抜去を5000回繰り返す。 (EIA-364-09) Mate and unmate up to 5000 cycles repeatedly at maximum rate of 200 cycles per hour. (EIA-364-09)	外観 Appearance	異常なきこと No Breakdown
			接触抵抗 Contact Resistance	50 milliohms maximum
			挿入力 Mating Force	1~5000 Cycles 35N (3.57kgf) maximum
			抜去力 Un-Mating Force	1 Cycle 7N (0.71kgf) minimum 2~5000 Cycles 3N (0.30kgf) minimum
4-2-3	ケーブル保持力 Cable Pull-Out	コネクタに装着されたケーブルを軸上に50Nで1分間引っ張る。(USB:40N,1分間) (EIA-364-38) Apply axial pull out force on the cable assembled in the connector at a rate of 50N for 1 minute.(USB:40N,1minute) (EIA-364-38)	外観 Appearance	異常なきこと No Breakdown
			接触抵抗 Contact Resistance	50 milliohm maximum
4-2-4	ターミナル保持力 Terminal Retention Force	ハウジングに装着されたターミナルを毎分 25±3mm の速さで引っ張る。 Apply axial pull out force on the terminal assembled in the housing at a rate of 25±3mm/minute.	4N(0.41kgf) minimum	
4-2-5	耐屈曲性 Crooked	規定の荷重を加え、左右各1回と数え、規定回数行う。(第10項参照) Suspend a specified weight from the code and swing the board specified number of times at a specific rate. Swinging one way is counted as one time.(refer to 10 clause) 荷重 Weight:4.9N(0.5kgf) 角度 Angle :60° 屈曲回数 Flexing:2000cycles	電線の破損、芯線の断線等、異常の無いこと。 (断線率100%未満) No damage such as breaks of exposure of conductor. Insulation damage,etc. (Percentage of broken wires should not be up to 100%)	

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D	SEE SHEET 1 OF 15	
REV.	DESCRIPTION	

DOCUMENT NUMBER PS-56579-015	FILE NAME PS56579015.doc	SHEET 5 of 15
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PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

項目 Item		条件 Test Condition	規格 Requirement	
4-2-6	耐振動性 Vibration	DC 100mA通電状態にて、第7項に示す振動を嵌合軸を含む互いに垂直な3方向に各15分間加える。 (EIA-364-28) Mate connectors and subject to the following vibration conditions (refer to 7clause), for a period of 15 minutes in each of 3 mutually perpendicular axes, passing DC 100mA during the test. (EIA-364-28)	外観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	50 milliohm maximum
			瞬断 Discontinuity	1.0 microsecond maximum
4-2-7	耐衝撃性 Shock	DC 100mA通電状態にて、嵌合軸を含む互いに垂直な6方向に294m/s ² (30G)の衝撃を各3回加える。(7項参照) (EIA-364-27) Mate connectors and subject to the following shock conditions. 3 shocks shall be applied along 3 mutually perpendicular axes, passing DC 100mA current during the test. (Total of 18 shocks) Test pulse : Half Sine Peak value : 294m/s ² (30G) Duration : 11ms (refer to 7 clause) (EIA-364-27)	外観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	50 milliohm maximum
			瞬断 Discontinuity	1.0 microsecond maximum
4-2-8	耐熱性 Heat Resistance	コネクタを嵌合させ、85±2℃の雰囲気中に250時間放置後取り出し、1~2時間室温に放置する。 (EIA-364-17) Mate connectors and expose to 85±2 degree centigrade for 250 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. (EIA-364-17)	外観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	50 milliohm maximum
			耐電圧 Dielectric Strength	4-1-3項満足のこと Must meet 4-1-3
			絶縁抵抗 Insulation Resistance	4-1-2項満足のこと Must meet 4-1-2

REVISE ON PC ONLY

D

SEE SHEET 1 OF 15

TITLE:

USB SERIES MINI-A TO MINI-B

-LEAD FREE-

製品仕様書

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REV.

DESCRIPTION

DOCUMENT NUMBER

PS-56579-015

FILE NAME

PS56579015.doc

SHEET

6 of 15

EN-37-1(019)



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

項目 Item		条件 Test Condition	規格 Requirement	
4-2-9	耐寒性 Cold	コネクタを嵌合させ、-55±2 °Cの雰囲気中に96時間放置後取り出し、1~2時間室温に放置する。 Mate connectors and expose to -55±2 degree centigrade for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed.	外観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	50 milliohm maximum
			耐電圧 Dielectric Strength	4-1-3項満足のこと Must meet 4-1-3
			絶縁抵抗 Insulation Resistance	4-1-2項満足のこと Must meet 4-1-2
4-2-10	耐湿性 Humidity	コネクタを嵌合させ、第8項に示す耐湿性サイクル試験（7サイクル）後取り出し、1~2時間室温に放置する。 (EIA-364-31 Method III) Mate connectors and expose to humidity in 7 cycles at 8 clause. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. (EIA-364-31 Method III)	外観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	50 milliohm maximum
			耐電圧 Dielectric Strength	4-1-3項満足のこと Must meet 4-1-3
			絶縁抵抗 Insulation Resistance	4-1-2項満足のこと Must meet 4-1-2

REVISE ON PC ONLY

D

SEE SHEET 1 OF 15

TITLE:

USB SERIES MINI-A TO MINI-B

-LEAD FREE-

製品仕様書

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REV.

DESCRIPTION

DOCUMENT NUMBER

PS-56579-015

FILE NAME

PS56579015.doc

SHEET

7 of 15

EN-37-1(019)



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

項目 Item		条件 Test Condition	規格 Requirement	
4-2-11	温度サイクル Temperature Cycling	コネクタを嵌合させ、-55±3 °Cに30分 +85±2 °Cに30分、これを1サイクルとし、 10サイクル繰り返す。但し、温度移行時 間は10~15分以内とする。試験後1~2時 間室温に放置する。 Mate connectors and subject to the following conditions for 10 cycles. Upon completion of the exposure period, the specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. 1 cycle a) -55±3 degree centigrade 30 minutes b) +85±2 degree centigrade 30 minutes Transit time shall be within 10 to 15 minutes.	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	50 milliohm maximum
			耐電圧 Dielectric Strength	4-1-3項満足のこと Must meet 4-1-3
			絶縁抵抗 Insulation Resistance	4-1-2項満足のこと Must meet 4-1-2
4-2-12	塩水噴霧 Salt Spray	コネクタを嵌合させ、35±2 °Cにて5±1% 重量比の塩水を 48±4時間噴霧し試験後 常温で水洗いした後、室温で乾燥させる。 (JIS C5028/MIL-STD-202 試験法101) Mate connectors and expose to the following salt mist conditions. Upon completion of the exposure period, salt deposits shall be removed by a gentle wash or dip in running water which the specified measurements shall be performed. NaCl solution concentration:5±1% Spray time :48±4hours Ambient temperature :35±2 °C (JIS C5028/MIL-STD-202 Method101)	外 観 Appearance	目視にて著しい サビが無いこと By visual inspection without noticeable rust.
			接触抵抗 Contact Resistance	100 milliohm maximum
4-2-13	亜硫酸ガス SO ₂ Gas	コネクタを嵌合させ、40±2 °Cにて 50±5ppmの亜硫酸ガスに24時間放置する Mate connectors and expose to 50±5ppm SO ₂ Gas, ambient temperature 40±2 °C for 24 hours.	外 観 Appearance	異常なきこと No Damage
			接触抵抗 Contact Resistance	100 milliohm maximum

REVISE ON PC ONLY

D

SEE SHEET 1 OF 15

TITLE:

USB SERIES MINI-A TO MINI-B

-LEAD FREE-

製品仕様書

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REV.

DESCRIPTION

DOCUMENT NUMBER

PS-56579-015

FILE NAME

PS56579015.doc

SHEET

8 of 15

EN-37-1(019)



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

項 目 Item		条 件 Test Condition	規 格 Requirement	
4-2-14	硫化水素ガス H ₂ S Gas	コネクタを嵌合させ、35±2 °Cにて相対湿度80%、3±1ppmの硫化水素ガスに96時間放置する Mate connectors and expose to 3±1ppm H ₂ S Gas, ambient temperature 35 ± 2 °C, humidity approx 80% for 96 hours.	外 観 Appearance	異状なきこと No Damage
			接触抵抗 Contact Resistance	100 milliohm maximum
4-2-15	非移行性 Migration	2枚のPS板(50x50x3)の間に20~30mm間隔で60mmの長さの試料を2本置き、これを2枚のガラス板に挟み、500gのオモリを乗せ暴露試験を行う。 (第9項参照) two data of the length of the role of 60mm are put in an interval and this putting it to 2 sheets of glass plates 500g of are loaded do a disclosure test (refer to 9 clause) 温度 Temperature : 60□ 時間 Duration : 48h	P S 板に著しい移行跡が無い事 There shall not be remarkable conduct in a polystyrene migration board	
4-2-16	半田付け性 Solderability	端子先端より0.5mmの位置まで、245 ± 5°Cの半田に4~5秒浸す。 (EIA-364-52 Category 2) Dip soldertails into the molten solder [held at 245 ± 5 degree centigrade] up to 0.5mm from the bottom of the housing for 4~5 seconds. (EIA-364-52 Category 2)	濡れ性 Solder Wetting	浸漬面積の95%以上 95% of immersed area must show no voids, pin holes

REVISE ON PC ONLY

D

SEE SHEET 1 OF 15

TITLE:

USB SERIES MINI-A TO MINI-B

-LEAD FREE-

製品仕様書

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REV.

DESCRIPTION

DOCUMENT NUMBER

PS-56579-015

FILE NAME

PS56579015.doc

SHEET

9 of 15

EN-37-1(019)



PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

項 目 Item		条 件 Test Condition	規 格 Requirement
4-2-17	半田耐熱性 Resistance to Soldering heat	下記の他は、JIS C 60068-2-60 (方法1Aまたは2) に準拠。 For procedures other than specified below, refer to IEC Pub. 68-2-20. Test Tb Method 1A or 2 ディップ Solder bath method 温度：260±3℃ 時間：10秒 Solder temperature :260±3℃ Immersion time:10s 浸漬深さ：基板面まで Thickness of printed wiring board プリント基板の厚さ：1.6mm Thickness of P.C.B : 1.6mm 手半田 Solder iron method 温度：370～400℃ 時間：5秒 MAX. Solder temperature :370～400℃ Immersion time:5s MAX. 但し、端子に異常のないこと。 However, excessive pressure shall not be applied to the terminal.	外観の変形および端子などの著しいガタがなく、電気的性能を満足すること。 Without deformation of case or excessive looseness of the terminals(pin). Electrical characteristics shall be satisfied
		第9項のリフロー条件にて2回実施する Reference reflow condition at 9 clause. Two times enforcement.	リフロー後、端子ガタ、割れなどの異常なきこと No Damage after reflow

() : 参考規格 Reference Standard.
{ } : 参考単位 Reference Unit.

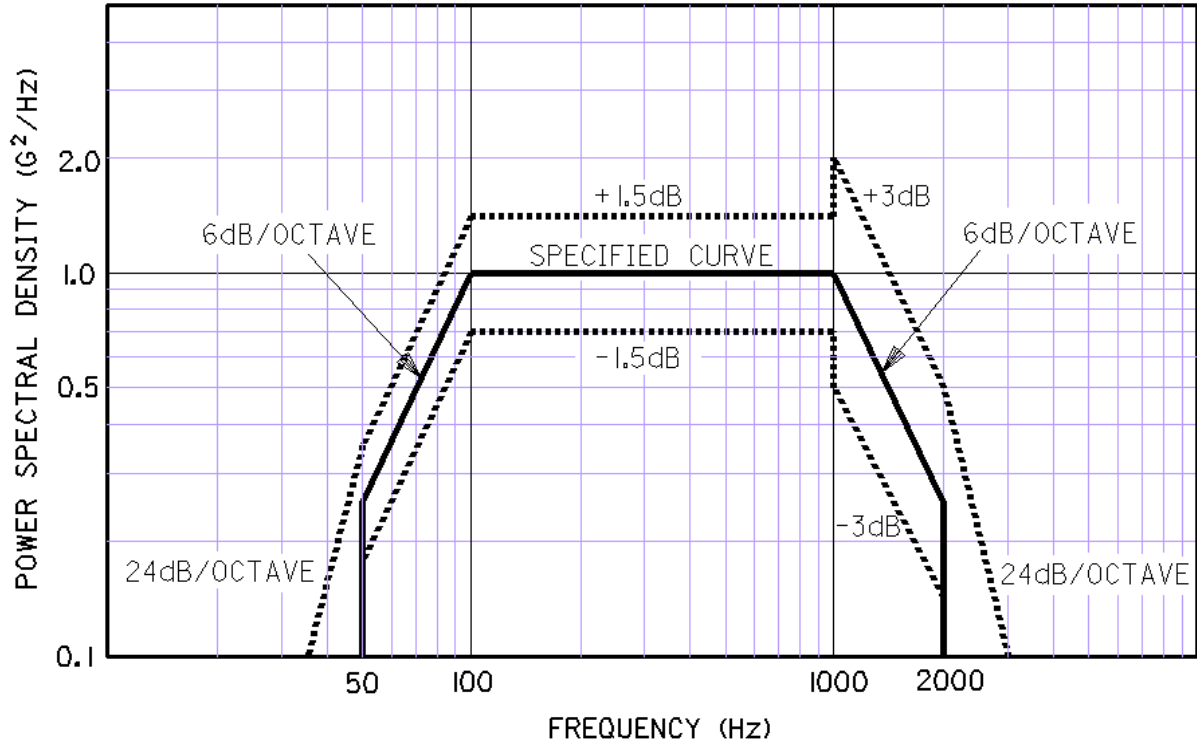
【5. 外観形状、寸法及び材質 PRODUCT SHAPE, DIMENSIONS AND MATERIALS】

図面参照 Refer to the drawing.

REVISE ON PC ONLY		TITLE:	
D	SEE SHEET 1 OF 15	USB SERIES MINI-A TO MINI-B	
		-LEAD FREE- 製品仕様書	
REV.	DESCRIPTION	THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
DOCUMENT NUMBER PS-56579-015		FILE NAME PS56579015.doc	SHEET 10 of 15
EN-37-1(019)			



【6. 振動条件 VIBRATION CONDITION】

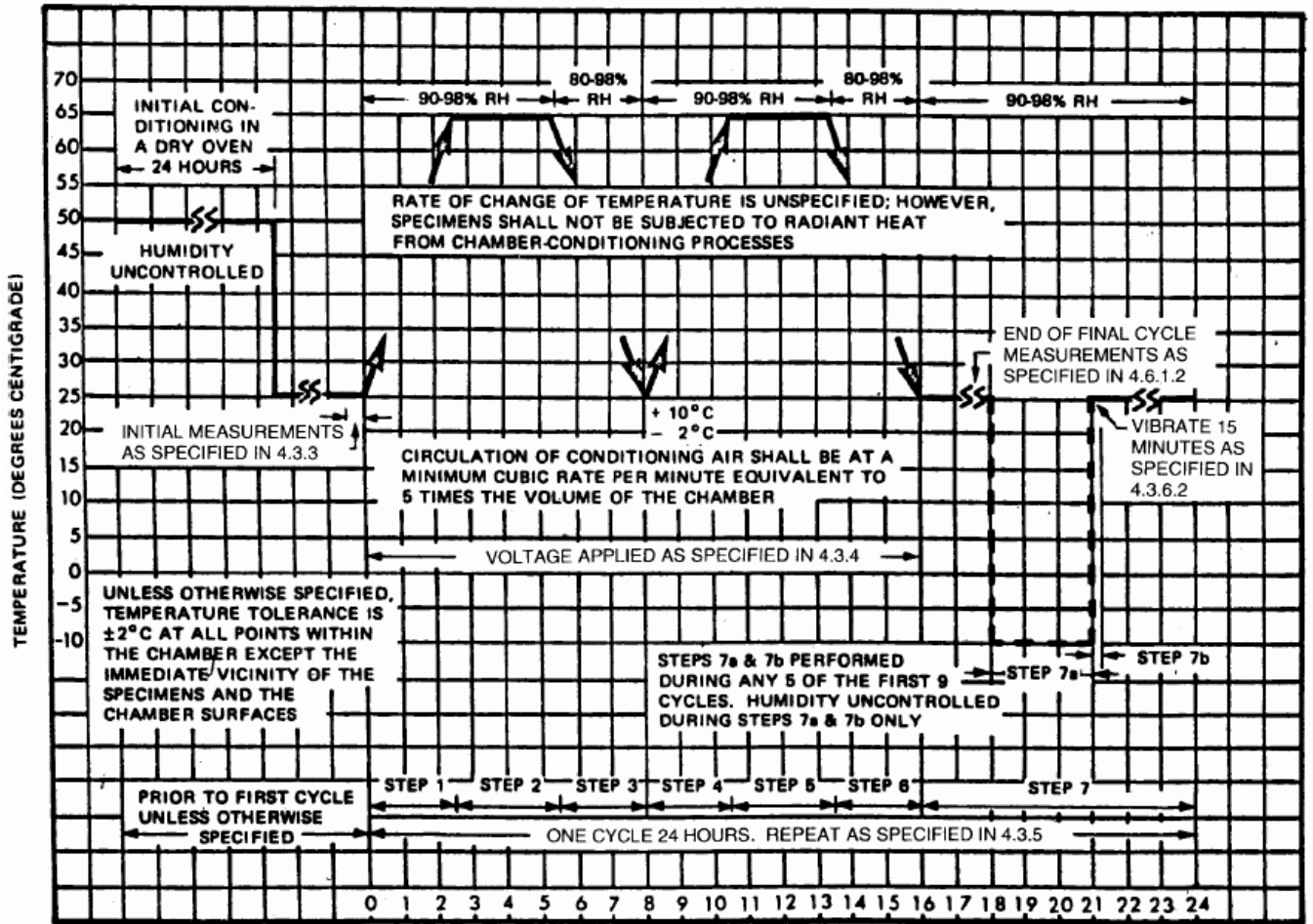


Power spectral density, G ² /Hz	Overall rms G minimum
0.02	5.35

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EN-37-1(019)			



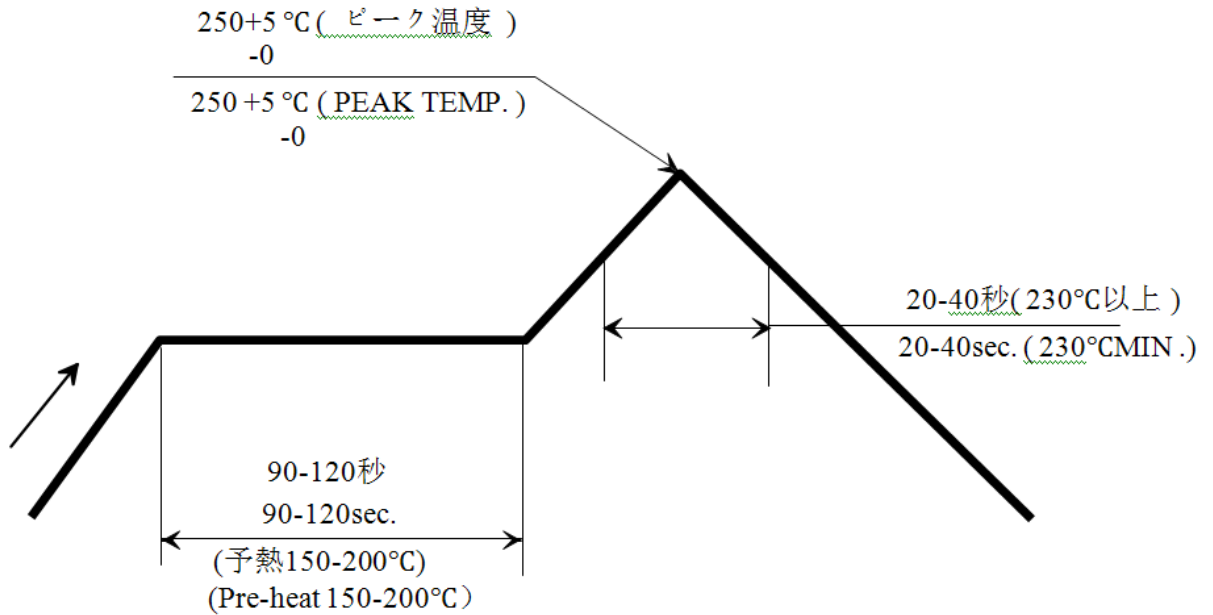
【7. 耐湿性条件 HUMIDITY CONDITION】



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PS-56579-015		FILE NAME	SHEET
		PS56579015.doc	12 of 15
EN-37-1(019)			



【8. リフロー条件 REFLOW CONDITION】



温度条件グラフ
(温度は基板パターン面)
TEMPERATURE CONDITION GRAPH
(TEMPERATURE ONBOARD PATTERN SIDE)

注記；本リフロー条件に関しては、リフロー装置及び基板などにより
条件が異なりますので、事前にリフロー評価の確認をお願いいたします。

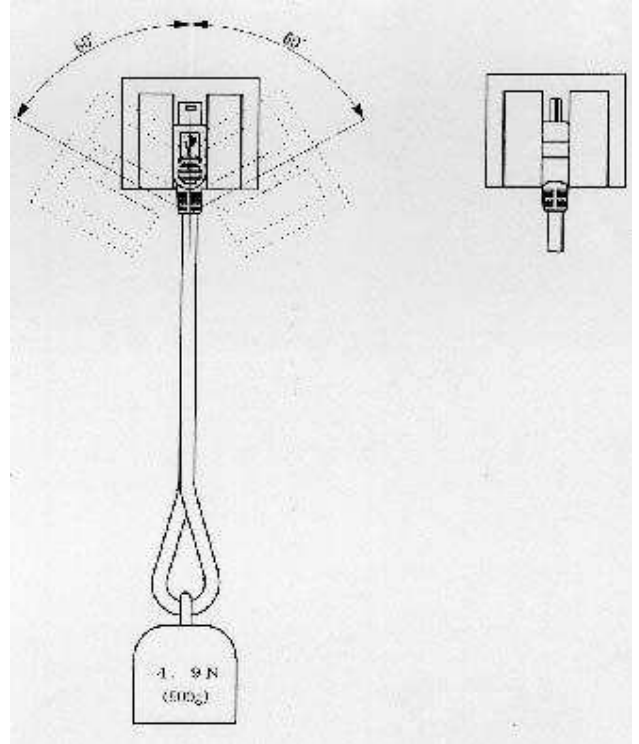
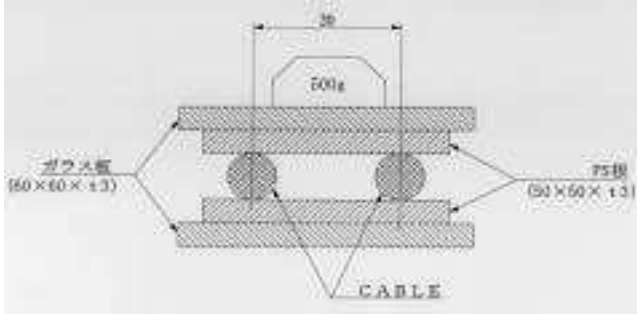
NOTE;Please Check the reflow soldering condition by your own devices beforehand.
Because the condition changes by the soldering devices, p.c.boards, and so on.

REVISE ON PC ONLY		TITLE:	
D	SEE SHEET 1 OF 15	USB SERIES MINI-A TO MINI-B	
	REV.	DESCRIPTION	-LEAD FREE- 製品仕様書
DOCUMENT NUMBER PS-56579-015		THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
		FILE NAME PS56579015.doc	SHEET 13 of 15
EN-37-1(019)			



【9. 非移行性試験条件 MIGRATION CONDITION】

【10. 耐屈曲性試験条件 FLEXING TEST CONDITION】



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	SEE SHEET 1 OF 15	
REV.	DESCRIPTION	
DOCUMENT NUMBER PS-56579-015		FILE NAME PS56579015.doc
		SHEET 14 of 15
EN-37-1(019)		

