



PRODUCT SPECIFICATION



LANGUAGE
JAPANESE
ENGLISH

【1. 適用範囲 SCOPE】

本仕様書は、 _____ 殿 に納入する。

1. 25mm ピッチ FFC/FPC用コネクタ について規定する。

This specification covers the 1.25mm PITCH FFC/FPC CONNECTOR series.

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

| 製品名称 Product Name | 無鉛 LEAD FREE | 製品型番 Material Number |
|--|-----------------|-------------------------|
| ハウジングアッセンブリ Housing Assembly | 無鉛 LEAD FREE | 5597-NAPB7F |
| ハウジングアッセンブリ Housing Assembly | 無鉛 LEAD FREE | 5597-NCPB7F |
| 5597-NCPB7F スティック梱包 Stick Package for 5597-NCPB7F | 無鉛 LEAD FREE | 5597-NCPB7F-ST |

N : 図面参照 Refer to the drawings.

【3. 定格 RATINGS】

| 項目 Item | 規格 Standard | |
|-------------------------------------|-----------------|--------------------|
| 最大許容電圧 Rated Voltage (MAXIMUM) | 200 V | [AC (実効値 rms) /DC] |
| 最大許容電流 Rated Current (MAXIMUM) | 1 A | |
| 使用温度範囲 Ambient Temperature Range | -20°C ~ +80°C*1 | |

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

| | | | | | | | | | | | | | | | | | | | |
|--|---|------|--|--|--|--------------------------------------|-----------------------|----------------------------|-------------------------------|--|--|--|--|--|--|--|--|------------------|--|
| REV. | A | B | | | | | | | | | | | | | | | | | |
| SHEET | 1-12 | 1-12 | | | | | | | | | | | | | | | | | |
| REVISE ON PC ONLY | | | | | | TITLE: | | | | | | | | | | | | | |
| B | 変更 REVISED J2005-1741 '04/12/13 E.SUZUKI | | | | | 1.25mm PITCH FFC / FPC CONNECTOR ZIF | | | | | | | | | | | | | |
| | | | | | | -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 | | | | | | | | | | | | | | | | | | | |
| REV. | DESCRIPTION | | | | | WRITTEN BY: N.AIDA | CHECKED BY: T.TOJO | APPROVED BY: M.SASAO | DATE: YR/MO/DAY 2004/03/16 | | | | | | | | | | |
| DESIGN CONTROL J | | | | | | STATUS | | FILE NAME PS5597004.doc | | | | | | | | | | SHEET 1 OF 12 | |
| DOCUMENT NUMBER PS-5597-004 | | | | | | | | | | | | | | | | | | | |



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【4. 性能 PERFORMANCE】

4-1. 電気的性能 Electrical Performance

| 項目 Item | 条件 Test Condition | 規格 Requirement |
|---|--|------------------------|
| 4-1-1 接触抵抗 Contact Resistance | 適合FFC/FPCを嵌合させ、開放電圧 20mV 以下、 短絡電流 10mA にて測定する。 (JIS C5402 5.4) Mate applicable FFC/FPC, measure by dry circuit, 20mV MAXIMUM, 10mA. (JIS C5402 5.4) | 20 milliohm MAXIMUM |
| 4-1-2 絶縁抵抗 Insulation Resistance | 適合FFC/FPCを嵌合させ、隣接するターミナル間、 ターミナル、アース間に、DC 500Vを印加し測定す る。(JIS C5402 5.2/MIL-STD-202 試験法 302) Mate applicable FFC/FPC and apply 500V DC between adjacent terminal or ground. (JIS C5402 5.2/MIL-STD-202 Method 302) | 500 megohm MINIMUM |
| 4-1-3 耐電圧 Dielectric Strength | 適合FFC/FPCを嵌合させ、隣接するターミナル間及 びターミナル、アース間に、AC 500V (実効値) を 1分間印加する。 (JIS C5402 5.1/MIL-STD-202 試験法 301) Mate applicable FFC/FPC, apply 500V AC (rms) for 1 minute between adjacent terminal or ground. (JIS C5402 5.1/MIL-STD-202 Method 301) | 異状なきこと No Breakdown |

4-2. 機械的性能 Mechanical Performance

| 項目 Item | 条件 Test Condition | 規格 Requirement |
|---|---|----------------------------------|
| 4-2-1 アクチュエータ 挿抜力 Actuator Insertion/ Withdrawal Force | 適合FFC/FPCを嵌合させ、アクチュエータを 毎分 25±3 mmの速さで挿入、抜去を行う。 Mate applicable FFC/FPC and Insert and withdraw actuator at the speed rate of 25±3 mm per minute. | 第 6 項 参照 Refer to paragraph 6 |
| 4-2-2 FFC/FPC保持力 FFC/FPC Retention Force | アクチュエータ挿入状態にて、毎分 25±3 mm の速さでFFC/FPCを引き抜く。 Insert the actuator, pull the FFC/FPC at the speed rate of 25±3 mm per minute. | 第 7 項 参照 Refer to paragraph 7 |
| 4-2-3 端子保持力 Terminal/Housing Retention Force | 各端子を、毎分 25±3 mm の速さで引き抜く。 Apply axial pull out force at the speed rate of 25 ±3 mm per minute on the terminal assembled in the housing. | 5.9 N {0.6kgf} MINIMUM |
| 4-2-4 端子強度 Terminal Strength | 全ての方向に 1 分間 4.9N(500gf)の力を加える。 Apply 4.9N(500gf) in each X.Y.Z. axes for 1 minute. | 割れ、折れのないこと No Damage |

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| REVISE ON PC ONLY | | TITLE: 1.25mm PITCH FFC / FPC CONNECTOR ZIF | |
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4-3. その他 Environmental Performance and Others

| 項目 Item | | 条件 Test Condition | 規格 Requirement | |
|------------|--|---|-------------------------------|-------------------------------|
| 4-3-1 | アクチュエータ 繰り返し動作 Repeated Actuator Insertion / Withdrawal | 無通電状態にて、1分間に10回以下の速さで挿入、 抜去を30回繰り返す。 Insert and withdraw actuator up to 30 cycles at the speed rate of less than 10 cycles per minute. | 接触抵抗 Contact Resistance | 40 milliohm MAXIMUM |
| | | 4-3-2 項から4-3-13 項までのテスト後、 アクチュエータを1回動作させる。 After completion of item 4-3-2~4-3-13 test, Insert and extract actuator up to 1 cycle. | 外 観 Appearance | 異常なきこと No Damage |
| 4-3-2 | 温度上昇 Temperature Rise | 適合FFC/FPCを嵌合させ、最大許容電流を通電し、 コネクタの温度上昇分を測定する。 (UL 498) Mate applicable FFC/FPC, measure the temperature rise of contact when the maximum AC rated current is passed. (UL 498) | 温度上昇 Temperature Rise | 30 °C MAXIMUM |
| 4-3-3 | 耐振動性 Vibration | DC 1mA通電状態にて、嵌合軸を含む互いに垂直 な3方向に掃引割合10~55~10Hz/分、全振幅 1.5mmの振動を各2時間加える。 (JIS C60068-2-6/MIL-STD-202試験法 201) Mate applicable FFC/FPC and subject to the following vibration conditions, for a period of 2 hours in each of 3 mutually perpendicular axes, passing DC 1 mA during the test. Amplitude : 1.5 mm P-P Frequency : 10-55-10 Hz Shall be traversed in 1 minute. (JIS C60068-2-6/MIL-STD-202, Method 201) | 外 観 Appearance | 異常なきこと No Damage |
| | | | 接触抵抗 Contact Resistance | 40 milliohm MAXIMUM |
| | | | 瞬断 Discontinuity | 1.0 microsecond MAXIMUM |
| 4-3-4 | 耐衝撃性 Shock | DC 1mA通電状態にて、嵌合軸を含む互いに垂直 な6方向に490m/s ² {50G}の衝撃を各3回加える。 (JIS C60068-2-27/MIL-STD-202試験法 213) Mate applicable FFC/FPC and subject to the following shock conditions. 3 times of shocks shall be applied for each 6 directions along 3 mutually perpendicular axes, passing DC 1 mA current during the test. (Total of 18 shocks) Peak value : 490 m/s ² {50 G} (JIS C60068-2-27/MIL-STD-202 Method 213) | 外 観 Appearance | 異常なきこと No Damage |
| | | | 接触抵抗 Contact Resistance | 40 milliohm MAXIMUM |
| | | | 瞬断 Discontinuity | 1.0 microsecond MAXIMUM |

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| 項目 Item | | 条件 Test Condition | 規格 Requirement | |
|------------|---------------------------|--|----------------------------------|---------------------------------|
| 4-3-5 | 耐熱性 Heat Resistance | 適合FFC/FPCを嵌合させ、85±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。 (JIS C60068-2-2/MIL-STD-202 試験法 108) Mate applicable FFC/FPC and expose to 85±2°C 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. (JIS C60068-2-2/MIL-STD-202 Method 108) | 外観 Appearance | 異常なきこと No Damage |
| | | | 接触抵抗 Contact Resistance | 40 milliohm MAXIMUM |
| 4-3-6 | 耐寒性 Cold Resistance | 適合FFC/FPCを嵌合させ、-40±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。 (JIS C60068-2-1) Mate applicable FFC/FPC and expose to -40±2°C 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. (JIS C60068-2-1) | 外観 Appearance | 異常なきこと No Damage |
| | | | 接触抵抗 Contact Resistance | 40 milliohm MAXIMUM |
| 4-3-7 | 耐湿性 Humidity | 適合FFC/FPCを嵌合させ、40±2°C 相対湿度 90~95%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。 (JIS C60068-2-3/MIL-STD-202 試験方法103) Mate applicable FFC/FPC and expose to 40±2°C,relative humidity 90 to 95% 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. (JIS C60068-2-3/MIL-STD-202 Method 103) | 外観 Appearance | 異常なきこと No Damage |
| | | | 接触抵抗 Contact Resistance | 40 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 | 50 megohm MINIMUM |

| | | | |
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| 項目 Item | | 条件 Test Condition | 規格 Requirement | |
|------------|----------------------------------|---|-------------------------------|------------------------|
| 4-3-8 | 温度サイクル Temperature Cycling | 適合FFC/FPCを嵌合させ、-30±3°Cに30分、+85±2°Cに30分、これを1サイクルとし、5サイクル繰り返す。但し、温度移行時間は3分以内とする。試験後1~2時間室温に放置する。(JIS C0025) Mate applicable FFC/FPC and subject to the following conditions for 5 cycles. 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. 1 cycle -30±3°C 30minutes +85±2°C 30minutes (Transit time shall be within 3 minutes) (JIS C0025) | 外 観 Appearance | 異常なきこと No Damage |
| | | | 接触抵抗 Contact Resistance | 40 milliohm MAXIMUM |
| 4-3-9 | 塩水噴霧 Salt Spray | 適合FFC/FPCを嵌合させ、35±2°Cにて重量比 5±1%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 C60068-2-11/MIL-STD-202 試験方法101) Mate applicable FFC/FPC and expose to the following salt mist condition. Upon completion of the exposure period, salt deposits shall be removed by a gentle wash or dip in running water, after which the specified measurements shall be performed. NaCl solution Concentration : 5±1% Spray time : 48±4 hours Ambient temperature : 35±2°C (JIS C60068-2-11/MIL-STD-202 Method 101) | 外 観 Appearance | 異常なきこと No Damage |
| | | | 接触抵抗 Contact Resistance | 40 milliohm MAXIMUM |
| 4-3-10 | 亜硫酸ガス SO ₂ Gas | 適合FFC/FPCを嵌合させ、40±2°Cにて50±5ppmの亜硫酸ガス中に24時間放置する。 Mate applicable FFC/FPC and expose them to the following SO ₂ gas atmosphere. Temperature 40±2°C Gas Density 50±5ppm Duration 24 hours | 外 観 Appearance | 異常なきこと No Damage |
| | | | 接触抵抗 Contact Resistance | 40 milliohm MAXIMUM |
| 4-3-11 | 耐アンモニア性 NH ₃ Gas | 適合FFC/FPCを嵌合させ、濃度28%のアンモニア水を入れた容器中に40分間放置する。 (1Lに対して25mLの割合) Mate applicable FFC/FPC and 40 minutes exposure to NH ₃ gas evaporating from 28% Ammonia solution. | 外 観 Appearance | 異常なきこと No Damage |
| | | | 接触抵抗 Contact Resistance | 40 milliohm MAXIMUM |

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|---------------------------------------|-------------------|--|-------------------|
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| 項目 Item | | 条件 Test Condition | 規格 Requirement | |
|------------|---------------------------------------|---|-----------------------|--|
| 4-3-12 | 半田付け性 Solder Ability | 端子をフラックスに浸し、本体の取付け基準面より1.2mmまで、245±3°Cの半田に3±0.5秒浸す。 Soldering time : 3±0.5 seconds Solder temperature : 245±3°C | 濡れ性 Solder Wetting | 浸漬面積 75%以上 75% of immersed area must show no voids, pin holes. |
| 4-3-13 | 半田耐熱性 Resistance to Soldering Heat | (ディップの場合) <u>Soldering bath method</u> 端子を本体の取付け基準面より1.2mmまで、260±5°Cの半田に5±0.5秒浸す。 Soldering time : 5±0.5 seconds Solder temperature : 260±5°C | 外 観 Appearance | 端子ガタ、 割れ等 異状無き事 No Damage |
| | | (手半田時) <u>Soldering iron method</u> 370~400°Cの半田ゴテにて最大5秒加熱する。但し、端ピンに異常な加圧のないこと。 Solder Time : 5 sec MAX. Solder Temperature: 370~400°C However, without too much pressure to the terminal pin. | | |

(): 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.

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【6. アクチュエータ保持力(FFC) ACTUATOR INSERTION/WITHDRAWAL FORCE(FFC)】

| 極数 Number of Circuit | 単位 UNIT | 挿入力 (最大値) Insertion Force (MAXIMUM) | | | 抜去力 (最大値) Withdrawal Force (MAXIMUM) | | |
|----------------------------|------------|--|---------------|---------------|---|---------------|---------------|
| | | 初回 1st | 6回目 6th | 30回目 30th | 初回 1st | 6回目 6th | 30回目 30th |
| 3 | N {kgf} | 27.4 {2.8} | 26.4 {2.7} | 26.4 {2.7} | 28.4 {2.9} | 27.4 {2.8} | 27.4 {2.8} |
| 4 | N {kgf} | 29.4 {3.0} | 28.4 {2.9} | 28.4 {2.9} | 30.3 {3.1} | 29.4 {3.0} | 29.4 {3.0} |
| 5 | N {kgf} | 30.3 {3.1} | 29.4 {3.0} | 29.4 {3.0} | 31.3 {3.2} | 30.3 {3.1} | 30.3 {3.1} |
| 6 | N {kgf} | 32.3 {3.3} | 30.3 {3.1} | 30.3 {3.1} | 33.3 {3.4} | 31.3 {3.2} | 31.3 {3.2} |
| 7 | N {kgf} | 33.3 {3.4} | 31.3 {3.2} | 31.3 {3.2} | 34.3 {3.5} | 32.3 {3.3} | 32.3 {3.3} |
| 8 | N {kgf} | 35.2 {3.6} | 33.3 {3.4} | 33.3 {3.4} | 36.2 {3.7} | 34.3 {3.5} | 34.3 {3.5} |
| 9 | N {kgf} | 36.2 {3.7} | 34.3 {3.5} | 34.3 {3.5} | 37.2 {3.8} | 35.2 {3.6} | 35.2 {3.6} |
| 10 | N {kgf} | 38.2 {3.9} | 36.2 {3.7} | 36.2 {3.7} | 39.2 {4.0} | 37.2 {3.8} | 37.2 {3.8} |
| 11 | N {kgf} | 39.2 {4.0} | 37.2 {3.8} | 37.2 {3.8} | 40.1 {4.1} | 38.2 {3.9} | 38.2 {3.9} |
| 12 | N {kgf} | 41.1 {4.2} | 39.2 {4.0} | 39.2 {4.0} | 42.1 {4.3} | 40.1 {4.1} | 40.1 {4.1} |
| 13 | N {kgf} | 42.1 {4.3} | 40.1 {4.1} | 40.1 {4.1} | 43.1 {4.4} | 41.1 {4.2} | 41.1 {4.2} |
| 14 | N {kgf} | 43.1 {4.4} | 41.1 {4.2} | 41.1 {4.2} | 44.1 {4.5} | 42.1 {4.3} | 42.1 {4.3} |
| 15 | N {kgf} | 45.0 {4.6} | 42.1 {4.3} | 42.1 {4.3} | 46.0 {4.7} | 43.1 {4.4} | 43.1 {4.4} |
| 16 | N {kgf} | 46.0 {4.7} | 43.1 {4.4} | 43.1 {4.4} | 47.0 {4.8} | 44.1 {4.5} | 44.1 {4.5} |
| 17 | N {kgf} | 48.0 {4.9} | 45.0 {4.6} | 45.0 {4.6} | 49.0 {5.0} | 46.0 {4.7} | 46.0 {4.7} |
| 18 | N {kgf} | 49.0 {5.0} | 46.0 {4.7} | 46.0 {4.7} | 49.9 {5.1} | 47.0 {4.8} | 47.0 {4.8} |

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| 極数 Number of Circuit | 単位 UNIT | 挿入力 (最大値) Insertion Force (MAXIMUM) | | | 抜去力 (最大値) Withdrawal Force (MAXIMUM) | | |
|----------------------------|------------|--|---------------|---------------|---|---------------|---------------|
| | | 初回 1st | 6回目 6th | 30回目 30th | 初回 1st | 6回目 6th | 30回目 30th |
| 19 | N {kgf} | 50.9 {5.2} | 47.0 {4.8} | 47.0 {4.8} | 51.9 {5.3} | 48.0 {4.9} | 48.0 {4.9} |
| 20 | N {kgf} | 51.9 {5.3} | 48.0 {4.9} | 48.0 {4.9} | 52.9 {5.4} | 49.0 {5.0} | 49.0 {5.0} |
| 21 | N {kgf} | 53.9 {5.5} | 49.9 {5.1} | 49.9 {5.1} | 54.8 {5.6} | 50.9 {5.2} | 50.9 {5.2} |
| 22 | N {kgf} | 54.8 {5.6} | 50.9 {5.2} | 50.9 {5.2} | 55.8 {5.7} | 51.9 {5.3} | 51.9 {5.3} |
| 23 | N {kgf} | 56.8 {5.8} | 51.9 {5.3} | 51.9 {5.3} | 57.8 {5.9} | 52.9 {5.4} | 52.9 {5.4} |
| 24 | N {kgf} | 57.8 {5.9} | 52.9 {5.4} | 52.9 {5.4} | 58.8 {6.0} | 53.9 {5.5} | 53.9 {5.5} |
| 25 | N {kgf} | 59.7 {6.1} | 54.8 {5.6} | 54.8 {5.6} | 60.7 {6.2} | 55.8 {5.7} | 55.8 {5.7} |
| 26 | N {kgf} | 60.7 {6.2} | 55.8 {5.7} | 55.8 {5.7} | 61.7 {6.3} | 56.8 {5.8} | 56.8 {5.8} |
| 27 | N {kgf} | 62.7 {6.4} | 56.8 {5.8} | 56.8 {5.8} | 63.7 {6.5} | 57.8 {5.9} | 57.8 {5.9} |
| 28 | N {kgf} | 63.7 {6.5} | 57.8 {5.9} | 57.8 {5.9} | 64.6 {6.6} | 58.8 {6.0} | 58.8 {6.0} |
| 29 | N {kgf} | 65.6 {6.7} | 59.7 {6.1} | 59.7 {6.1} | 66.6 {6.8} | 60.7 {6.2} | 60.7 {6.2} |
| 30 | N {kgf} | 66.6 {6.8} | 60.7 {6.2} | 60.7 {6.2} | 67.6 {6.9} | 61.7 {6.3} | 61.7 {6.3} |
| 31 | N {kgf} | 68.6 {7.0} | 62.7 {6.4} | 62.7 {6.4} | 69.5 {7.1} | 63.7 {6.5} | 63.7 {6.5} |
| 32 | N {kgf} | 69.5 {7.1} | 63.7 {6.5} | 63.7 {6.5} | 70.5 {7.2} | 64.6 {6.6} | 64.6 {6.6} |
| 33 | N {kgf} | 71.5 {7.3} | 65.6 {6.7} | 65.6 {6.7} | 72.5 {7.4} | 65.6 {6.7} | 65.6 {6.7} |
| 34 | N {kgf} | 72.5 {7.4} | 66.6 {6.8} | 66.6 {6.8} | 73.5 {7.5} | 66.6 {6.8} | 66.6 {6.8} |
| 35 | N {kgf} | 73.5 {7.5} | 67.6 {6.9} | 67.6 {6.9} | 74.4 {7.6} | 67.6 {6.9} | 67.6 {6.9} |

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PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

【6. アクチュエータ保持力(FPC) ACTUATOR INSERTION/WITHDRAWAL FORCE(FPC)】

| 極数 Number of Circuit | 単位 UNIT | 挿入力 (最大値) Insertion Force (MAXIMUM) | | | 抜去力 (最大値) Withdrawal Force (MAXIMUM) | | |
|----------------------------|------------|--|---------------|---------------|---|---------------|---------------|
| | | 初回 1st | 6回目 6th | 30回目 30th | 初回 1st | 6回目 6th | 30回目 30th |
| 3 | N {kgf} | 23.5 {2.4} | 22.5 {2.3} | 22.5 {2.3} | 32.3 {3.3} | 31.3 {3.2} | 31.3 {3.2} |
| 4 | N {kgf} | 25.4 {2.6} | 24.5 {2.5} | 24.5 {2.5} | 34.3 {3.5} | 33.3 {3.4} | 33.3 {3.4} |
| 5 | N {kgf} | 26.4 {2.7} | 25.4 {2.6} | 25.4 {2.6} | 35.2 {3.6} | 34.3 {3.5} | 34.3 {3.5} |
| 6 | N {kgf} | 28.4 {2.9} | 26.4 {2.7} | 26.4 {2.7} | 37.2 {3.8} | 35.2 {3.6} | 35.2 {3.6} |
| 7 | N {kgf} | 29.4 {3.0} | 27.4 {2.8} | 27.4 {2.8} | 38.2 {3.9} | 36.2 {3.7} | 36.2 {3.7} |
| 8 | N {kgf} | 31.3 {3.2} | 29.4 {3.0} | 29.4 {3.0} | 40.1 {4.1} | 37.2 {3.8} | 37.2 {3.8} |
| 9 | N {kgf} | 32.3 {3.3} | 30.3 {3.1} | 30.3 {3.1} | 41.1 {4.2} | 38.2 {3.9} | 38.2 {3.9} |
| 10 | N {kgf} | 34.3 {3.5} | 32.3 {3.3} | 32.3 {3.3} | 43.1 {4.4} | 39.2 {4.0} | 39.2 {4.0} |
| 11 | N {kgf} | 29.4 {3.0} | 27.4 {2.8} | 27.4 {2.8} | 39.2 {4.0} | 37.2 {3.8} | 37.2 {3.8} |
| 12 | N {kgf} | 30.3 {3.1} | 28.4 {2.9} | 28.4 {2.9} | 40.1 {4.1} | 38.2 {3.9} | 38.2 {3.9} |
| 13 | N {kgf} | 31.3 {3.2} | 29.4 {3.0} | 29.4 {3.0} | 41.1 {4.2} | 39.2 {4.0} | 39.2 {4.0} |
| 14 | N {kgf} | 32.3 {3.3} | 30.3 {3.1} | 30.3 {3.1} | 42.1 {4.3} | 40.1 {4.1} | 40.1 {4.1} |
| 15 | N {kgf} | 34.3 {3.5} | 31.3 {3.2} | 31.3 {3.2} | 44.1 {4.5} | 41.1 {4.2} | 41.1 {4.2} |
| 16 | N {kgf} | 35.2 {3.6} | 32.3 {3.3} | 32.3 {3.3} | 45.0 {4.6} | 42.1 {4.3} | 42.1 {4.3} |
| 17 | N {kgf} | 36.2 {3.7} | 33.3 {3.4} | 33.3 {3.4} | 46.0 {4.7} | 43.1 {4.4} | 43.1 {4.4} |
| 18 | N {kgf} | 37.2 {3.8} | 34.3 {3.5} | 34.3 {3.5} | 47.0 {4.8} | 44.1 {4.5} | 44.1 {4.5} |

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PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

| 極数 Number of Circuit | 単位 UNIT | 挿入力 (最大値) Insertion Force (MAXIMUM) | | | 抜去力 (最大値) Withdrawal Force (MAXIMUM) | | |
|----------------------------|------------|--|---------------|---------------|---|---------------|---------------|
| | | 初回 1st | 6回目 6th | 30回目 30th | 初回 1st | 6回目 6th | 30回目 30th |
| 19 | N {kgf} | 39.2 {4.0} | 35.2 {3.6} | 35.2 {3.6} | 49.0 {5.0} | 45.0 {4.6} | 45.0 {4.6} |
| 20 | N {kgf} | 40.1 {4.1} | 36.2 {3.7} | 36.2 {3.7} | 49.9 {5.1} | 46.0 {4.7} | 46.0 {4.7} |
| 21 | N {kgf} | 41.1 {4.2} | 37.2 {3.8} | 37.2 {3.8} | 50.9 {5.2} | 47.0 {4.8} | 47.0 {4.8} |
| 22 | N {kgf} | 42.1 {4.3} | 38.2 {3.9} | 38.2 {3.9} | 51.9 {5.3} | 48.0 {4.9} | 48.0 {4.9} |
| 23 | N {kgf} | 44.1 {4.5} | 39.2 {4.0} | 39.2 {4.0} | 53.9 {5.5} | 49.0 {5.0} | 49.0 {5.0} |
| 24 | N {kgf} | 45.0 {4.6} | 40.1 {4.1} | 40.1 {4.1} | 54.8 {5.6} | 49.9 {5.1} | 49.9 {5.1} |
| 25 | N {kgf} | 46.0 {4.7} | 41.1 {4.2} | 41.1 {4.2} | 55.8 {5.7} | 50.9 {5.2} | 50.9 {5.2} |
| 26 | N {kgf} | 47.0 {4.8} | 42.1 {4.3} | 42.1 {4.3} | 56.8 {5.8} | 51.9 {5.3} | 51.9 {5.3} |
| 27 | N {kgf} | 49.0 {5.0} | 43.1 {4.4} | 43.1 {4.4} | 58.8 {6.0} | 52.9 {5.4} | 52.9 {5.4} |
| 28 | N {kgf} | 49.9 {5.1} | 44.1 {4.5} | 44.1 {4.5} | 59.7 {6.1} | 53.9 {5.5} | 53.9 {5.5} |
| 29 | N {kgf} | 50.9 {5.2} | 45.0 {4.6} | 45.0 {4.6} | 60.7 {6.2} | 54.8 {5.6} | 54.8 {5.6} |
| 30 | N {kgf} | 51.9 {5.3} | 46.0 {4.7} | 46.0 {4.7} | 61.7 {6.3} | 55.8 {5.7} | 55.8 {5.7} |
| 31 | N {kgf} | 53.9 {5.5} | 47.0 {4.8} | 47.0 {4.8} | 63.7 {6.5} | 56.8 {5.8} | 56.8 {5.8} |
| 32 | N {kgf} | 54.8 {5.6} | 48.0 {4.9} | 48.0 {4.9} | 64.6 {6.6} | 57.8 {5.9} | 57.8 {5.9} |
| 33 | N {kgf} | 55.8 {5.7} | 49.0 {5.0} | 49.0 {5.0} | 65.6 {6.7} | 58.8 {6.0} | 58.8 {6.0} |
| 34 | N {kgf} | 56.8 {5.8} | 49.9 {5.1} | 49.9 {5.1} | 66.6 {6.8} | 59.7 {6.1} | 59.7 {6.1} |
| 35 | N {kgf} | 57.8 {5.9} | 50.9 {5.2} | 50.9 {5.2} | 67.6 {6.9} | 60.7 {6.2} | 60.7 {6.2} |

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PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

【7. FFC/FPC保持力 FPC RETENTION FORCE】

| 極数 Number of Circuit | 単位 UNIT | 保持力 (最小値) Retention Force (MINIMUM) | | 極数 Number of Circuit | 単位 UNIT | 保持力 (最小値) Retention Force (MINIMUM) | |
|----------------------------|------------|--|---------------|----------------------------|------------|---|----------------|
| | | 初回 1st | 10回目 10th | | | 初回 1st | 10回目 10th |
| 3 | N {kgf} | 5.4 {0.55} | 4.9 {0.50} | 19 | N {kgf} | 10.8 {1.10} | 7.9 {0.80} |
| 4 | N {kgf} | 5.9 {0.60} | 4.9 {0.50} | 20 | N {kgf} | 11.3 {1.15} | 7.9 {0.80} |
| 5 | N {kgf} | 6.4 {0.65} | 5.4 {0.55} | 21 | N {kgf} | 11.8 {1.20} | 8.4 {0.85} |
| 6 | N {kgf} | 6.9 {0.70} | 5.9 {0.60} | 22 | N {kgf} | 12.3 {1.25} | 8.9 {0.90} |
| 7 | N {kgf} | 7.4 {0.75} | 6.4 {0.65} | 23 | N {kgf} | 12.8 {1.30} | 8.9 {0.90} |
| 8 | N {kgf} | 7.9 {0.80} | 6.9 {0.70} | 24 | N {kgf} | 13.3 {1.35} | 9.4 {0.95} |
| 9 | N {kgf} | 8.4 {0.85} | 7.4 {0.75} | 25 | N {kgf} | 13.8 {1.40} | 11.8 {1.20} |
| 10 | N {kgf} | 8.9 {0.90} | 7.9 {0.80} | 26 | N {kgf} | 14.3 {1.45} | 12.3 {1.25} |
| 11 | N {kgf} | 6.9 {0.70} | 4.9 {0.50} | 27 | N {kgf} | 14.7 {1.50} | 12.8 {1.30} |
| 12 | N {kgf} | 7.4 {0.75} | 5.4 {0.55} | 28 | N {kgf} | 15.2 {1.55} | 13.3 {1.35} |
| 13 | N {kgf} | 7.9 {0.80} | 5.9 {0.60} | 29 | N {kgf} | 15.7 {1.60} | 13.8 {1.40} |
| 14 | N {kgf} | 8.4 {0.85} | 5.9 {0.60} | 30 | N {kgf} | 16.2 {1.65} | 14.3 {1.45} |
| 15 | N {kgf} | 8.9 {0.90} | 6.4 {0.65} | 31 | N {kgf} | 16.7 {1.70} | 14.7 {1.50} |
| 16 | N {kgf} | 9.4 {0.95} | 6.9 {0.70} | 32 | N {kgf} | 17.2 {1.75} | 15.2 {1.55} |
| 17 | N {kgf} | 9.8 {1.00} | 6.9 {0.70} | 33 | N {kgf} | 17.7 {1.80} | 15.7 {1.60} |
| 18 | N {kgf} | 10.3 {1.05} | 7.4 {0.75} | 34 | N {kgf} | 18.2 {1.85} | 16.2 {1.65} |
| | | | | 35 | N {kgf} | 18.7 {1.90} | 16.7 {1.70} |

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1.25mm PITCH FFC / FPC CONNECTOR ZIF

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PRODUCT SPECIFICATION



LANGUAGE

JAPANESE
ENGLISH

| REV. | REV. RECORD | DATE | EC NO. | WRITTEN BY : | CHECKED BY : |
|------|-------------|-----------|------------|--------------|--------------|
| A | RELEASED | '04/03/16 | J2004-3126 | N.AIDA | K.TOJO |
| B | REVISED | '04/12/13 | J2005-1741 | E.SUZUKI | K.TOJO |
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