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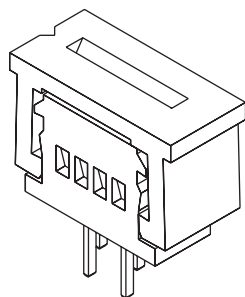
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Jameco Part Number 1969526

1.25mm (.049") Pitch FFC/FPC Connector

5597-NCPB Vertical, ZIF



Features and Benefits

- Sizes 3 to 30 circuits
- Staggered solder tails, 3.50mm (.138") long
- 5597 accommodates FFC/FPC 0.30mm (.012") thick

Reference Information

Packaging: Tray
UL File No.: E29179
Designed In: Millimeters

Electrical

Voltage: 200V
Current: 1.0A
Contact Resistance: 20 milliohms max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 500 Megohms min.

Physical

Housing: PBTP, UL 94V-0
Actuator: PBTP, UL 94V-0
Contact: Phosphor Bronze
Plating: Tin
Operating Temperature: -20 to +80°C

Circuits	Order No.	Lead-free
3	39-51-3034	No
4	39-51-3044	
5	39-51-3054	
6	39-51-3064	
7	39-51-3074	
8	39-51-3084	
9	39-51-3094	
10	39-51-3104	
11	39-51-3114	
12	39-51-3124	

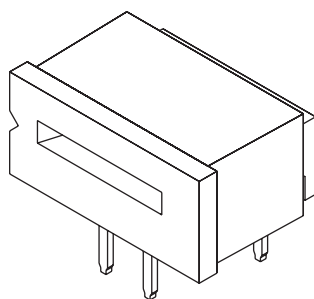
Circuits	Order No.	Lead-free
13	39-51-3134	No
14	39-51-3144	
15	39-51-3154	
16	39-51-3164	
17	39-51-3174	
18	39-51-3184	
19	39-51-3194	
20	39-51-3204	
21	39-51-3214	
22	39-51-3224	

Circuits	Order No.	Lead-free
23	39-51-3234	No
24	39-51-3244	
25	39-51-3254	
26	39-51-3264	
27	39-51-3274	
28	39-51-3284	
29	39-51-3294	
30	39-51-3304	

Note: Contact Molex for cable specification dimensions

1.25mm (.049") Pitch FFC/FPC Connector

5597-NAPB Right Angle, ZIF



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3	39-51-3033	No
4	39-51-3043	
5	39-51-3053	
6	39-51-3063	
7	39-51-3073	
8	39-51-3083	
9	39-51-3093	
10	39-51-3103	
11	39-51-3113	
12	39-51-3123	

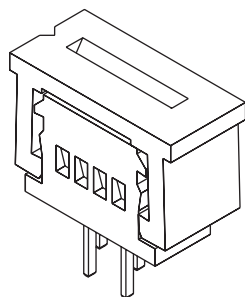
Circuits	Order No.	Lead-free
13	39-51-3133	No
14	39-51-3143	
15	39-51-3153	
16	39-51-3163	
17	39-51-3173	
18	39-51-3183	
19	39-51-3193	
20	39-51-3203	
21	39-51-3213	
22	39-51-3223	

Circuits	Order No.	Lead-free
23	39-51-3233	No
24	39-51-3243	
25	39-51-3253	
26	39-51-3263	
27	39-51-3273	
28	39-51-3283	
29	39-51-3293	
30	39-51-3303	

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3	39-51-3034	No
4	39-51-3044	
5	39-51-3054	
6	39-51-3064	
7	39-51-3074	
8	39-51-3084	
9	39-51-3094	
10	39-51-3104	
11	39-51-3114	
12	39-51-3124	

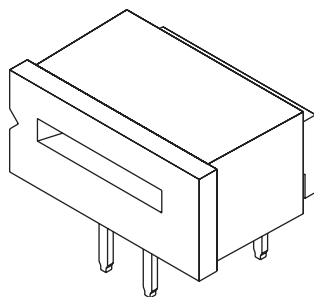
Circuits	Order No.	Lead-free
13	39-51-3134	No
14	39-51-3144	
15	39-51-3154	
16	39-51-3164	
17	39-51-3174	
18	39-51-3184	
19	39-51-3194	
20	39-51-3204	
21	39-51-3214	
22	39-51-3224	

Circuits	Order No.	Lead-free
23	39-51-3234	No
24	39-51-3244	
25	39-51-3254	
26	39-51-3264	
27	39-51-3274	
28	39-51-3284	
29	39-51-3294	
30	39-51-3304	

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1.25mm (.049") Pitch FFC/FPC Connector

5597-NAPB Right Angle, ZIF



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3	39-51-3033	No
4	39-51-3043	
5	39-51-3053	
6	39-51-3063	
7	39-51-3073	
8	39-51-3083	
9	39-51-3093	
10	39-51-3103	
11	39-51-3113	
12	39-51-3123	

Circuits	Order No.	Lead-free
13	39-51-3133	No
14	39-51-3143	
15	39-51-3153	
16	39-51-3163	
17	39-51-3173	
18	39-51-3183	
19	39-51-3193	
20	39-51-3203	
21	39-51-3213	
22	39-51-3223	

Circuits	Order No.	Lead-free
23	39-51-3233	No
24	39-51-3243	
25	39-51-3253	
26	39-51-3263	
27	39-51-3273	
28	39-51-3283	
29	39-51-3293	
30	39-51-3303	

Note: Contact Molex for cable specification dimensions



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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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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	異状なきこと 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	異状なきこと 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	異状なきこと 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、 $85\pm 2^{\circ}\text{C}$ 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 $85\pm 2^{\circ}\text{C}$ 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	異状なきこと 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、 $-40\pm 2^{\circ}\text{C}$ 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 $-40\pm 2^{\circ}\text{C}$ 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	異状なきこと 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、 $40\pm 2^{\circ}\text{C}$ 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 $40\pm 2^{\circ}\text{C}$, 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	異状なきこと 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℃に30分、+85±2℃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℃ 30minutes +85±2℃ 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℃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℃ (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℃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℃ 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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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、 $245\pm 3^{\circ}\text{C}$ の半田に 3 ± 0.5 秒浸す。 Soldering time : 3 ± 0.5 seconds Solder temperature : $245\pm 3^{\circ}\text{C}$	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、 $260\pm 5^{\circ}\text{C}$ の半田に 5 ± 0.5 秒浸す。 Soldering time : 5 ± 0.5 seconds Solder temperature : $260\pm 5^{\circ}\text{C}$	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 $^{\circ}\text{C}$ 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 $^{\circ}\text{C}$ 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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	REV.	DESCRIPTION	THIS DOCUMENT CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
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PRODUCT SPECIFICATION



LANGUAGE

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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}	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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LANGUAGE

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【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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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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【 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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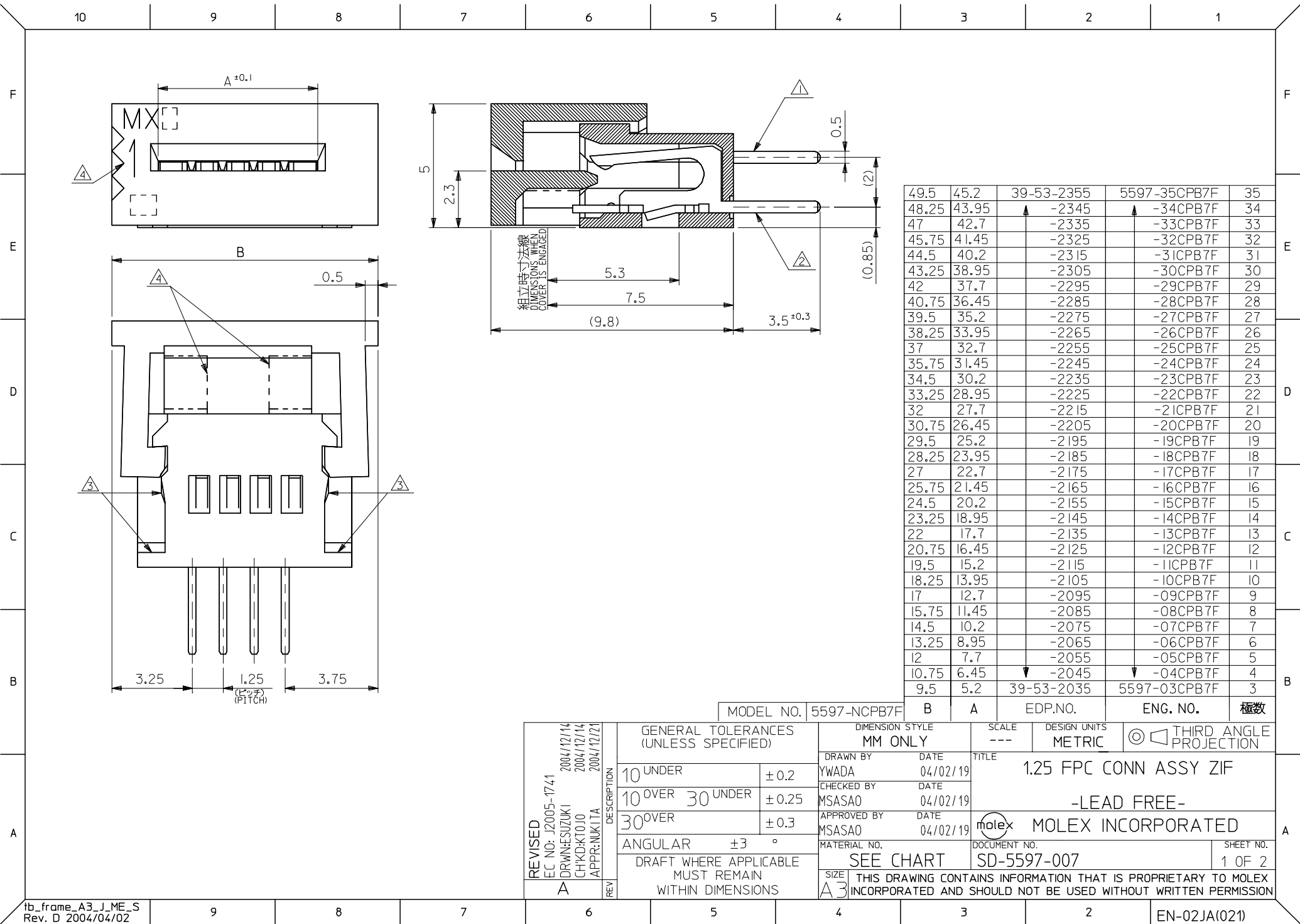


LANGUAGE

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

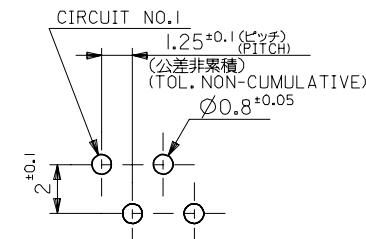
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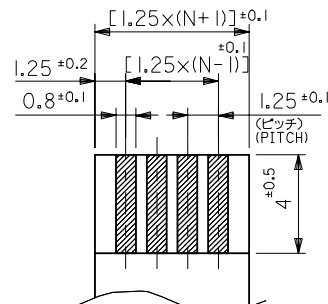
49.5	45.2	39-53-2355	5597-35CPB7F	35
48.25	43.95	-2345	-34CPB7F	34
47	42.7	-2335	-33CPB7F	33
45.75	41.45	-2325	-32CPB7F	32
44.5	40.2	-2315	-31CPB7F	31
43.25	38.95	-2305	-30CPB7F	30
42	37.7	-2295	-29CPB7F	29
40.75	36.45	-2285	-28CPB7F	28
39.5	35.2	-2275	-27CPB7F	27
38.25	33.95	-2265	-26CPB7F	26
37	32.7	-2255	-25CPB7F	25
35.75	31.45	-2245	-24CPB7F	24
34.5	30.2	-2235	-23CPB7F	23
33.25	28.95	-2225	-22CPB7F	22
32	27.7	-2215	-21CPB7F	21
30.75	26.45	-2205	-20CPB7F	20
29.5	25.2	-2195	-19CPB7F	19
28.25	23.95	-2185	-18CPB7F	18
27	22.7	-2175	-17CPB7F	17
25.75	21.45	-2165	-16CPB7F	16
24.5	20.2	-2155	-15CPB7F	15
23.25	18.95	-2145	-14CPB7F	14
22	17.7	-2135	-13CPB7F	13
20.75	16.45	-2125	-12CPB7F	12
19.5	15.2	-2115	-11CPB7F	11
18.25	13.95	-2105	-10CPB7F	10
17	12.7	-2095	-09CPB7F	9
15.75	11.45	-2085	-08CPB7F	8
14.5	10.2	-2075	-07CPB7F	7
13.25	8.95	-2065	-06CPB7F	6
12	7.7	-2055	-05CPB7F	5
10.75	6.45	-2045	-04CPB7F	4
9.5	5.2	39-53-2035	5597-03CPB7F	3

MODEL NO.	5597-NCPB7F	B	A	EDP.NO.	ENG. NO.	極数
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REVISED EC NO: J2005-1741 DRW: ESUZUKI CHK: KTOJO APP: NUKITA 2004/12/14 2004/12/14 2004/12/21	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY YWADA	DATE 04/02/19	TITLE 1.25 FPC CONN ASSY ZIF				
		10 OVER 30 UNDER	± 0.25	CHECKED BY MSASAO	DATE 04/02/19					
		30 OVER	± 0.3	APPROVED BY MSASAO	DATE 04/02/19	-LEAD FREE-				
		ANGULAR ±3 °		MATERIAL NO.		MOLEX MOLEX INCORPORATED				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		DOCUMENT NO. SD-5597-007				
	REV				SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
								SHEET NO. 1 OF 2		



基板取付穴推奨寸法 (t=1.6)
RECOMMENDED P.C. BOARD
HOLE DIMENSION (SCALE 5:1)



適合FPC/FFC推奨寸法
RECOMMENDED FPC/FFC
厚さ THK : 0.3 ± 0.05 (SCALE 5:1)

FPCについて:

打抜き方向は導体側から補強板側を推奨いたします。
補強フィルム材質はポリイミドを推奨致します。
接着剤は熱硬化接着剤を推奨致します。

ABOUT FPC:

RECOMMENDED PUNCHER DIRECTION :
FROM CONDUCTOR SIDE TO STIFFENER BOARD SIDE.
RECOMMENDED MATERIAL:
STIFFENER FILM : POLYIMIDE
BONDING AGENT : THERMOSETTING BONDING AGENT

注記 NOTES

- ① MX J側を基準に奇数番目の極におけるソルダーテール。
SOLDER TAIL OF ODD CKTS,MXJ MARK AS BASIC.
- ② MX J側を基準に偶数番目の極におけるソルダーテール。
SOLDER TAIL OF EVEN CKTS,MXJ MARK AS BASIC.
- ③ 3極~10極に適用。APPLY FOR 3-10 CKTS.
- ④ 3極~19極に適用。APPLY FOR 3-19 CKTS.
5. () 内寸法は、参考値。
() DIMENSION IS FOR REFERENCE.
6. ソルダーテールは、先端が取付推奨穴にガイドされること。
SOLDER TAILS MAY BE CHECKEDBY INSERSION
FOR RECOMMENDED PCB BOARD HOLES.

7. 使用材料 MATERIAL

ハウジング、アクチュエーター: PBTP, UL94V-0
HOUSING, ACTUATOR: PBTP,UL94V-0
ターミナル: リン青銅 (t=0.3)
PHOSPHOR BRONZE (t=0.3)
錫ピスマスメッキ 1.0μm MIN.
TIN-BISMUTH 1.0 MICROMETER MIN.
ニッケル下地 1.0μm MIN.
NICKEL 1.0 MICROMETER MIN.

8. 本製品は5597-NCPBの鉛フリー品である。
THIS PRODUCT IS LEAD FREE OF 5597-NCPB.

REVISED EC NO: J2005-4741 DRAWN:SUZUKI CHKD:KTOJO APPR:NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	±0.2	DRAWN BY YWADA	DATE 04/02/19	TITLE 1.25 FPC CONN ASSY ZIF -LEAD FREE-				
		10 OVER 30 UNDER	±0.25	CHECKED BY MSASAO	DATE 04/02/19					
		30 OVER	±0.3	APPROVED BY MSASAO	DATE 04/02/19	MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.						
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-5597-007		2 OF 2			
A	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								