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ELECTRONICS

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Jameco Part Number 881581

FEATURES AND SPECIFICATIONS

Features and Benefits

- Positive housing locks to mate with Mini-Fit, Jr. receptacle
- Fully isolated terminals to protect contacts from damage
- Drain hole option available

Reference Information

Product Specification: PS-5556-0001

Packaging: Tray or bag

UL File No.: E29179

CSA File No.: LR19980

TUV License No.: R75142

Mates With: 5557 dual row receptacle

Designed In: Millimeters

Electrical

Voltage: 600V

Current: (Used with 16 AWG)

Circuits	2-3	4-6	7-10	12-24
Amperes-Jr.	9	8	7	6

Electrical (cont'd)

Contact Resistance: 10mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 1.5kg max.

Contact Retention to Housing: 3.0kg min.

Wire Pull-Out Force: 9.0kg min.

Insertion Force to PCB: 5.0kg max.

Mating Force: 0.7kg (1.54 lb) max.

Unmating Force: 0.35kg (0.7 lb) min.

Normal Force: 200g min.

Durability: 30 cycles

Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0

Contact: Brass or Phosphor Bronze

Plating: Tin, select Gold or overall Gold

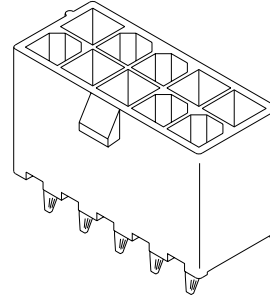
Operating Temperature: -40 to +105°C



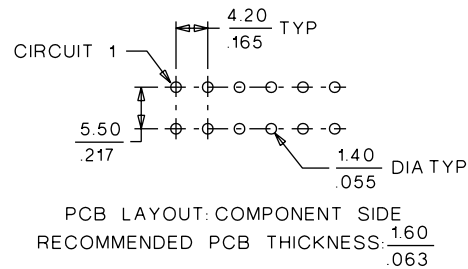
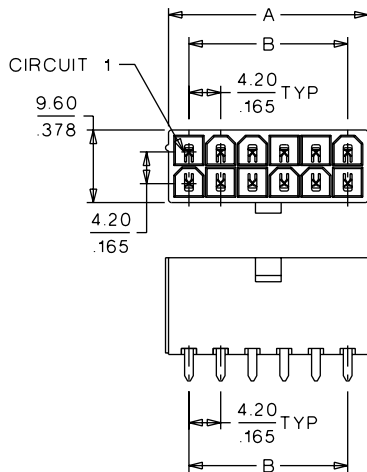
4.20mm (.165") Pitch Mini-Fit, Jr.™ Header

5566

Vertical, Dual Row Without Pegs



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

With Drain Holes						
Circuits	Order No.				Dimension	
	Tin Plated		Gold Plated (30μ")		A	B
	94V-2	94V-0	94V-2	94V-0		
2	•39-29-3026	•39-31-0020	•39-31-0027	•39-31-0028	5.40 (.210)	
4	•39-29-3046	•39-31-0040	•39-31-0047	•39-31-0048	9.60 (.380)	4.20 (.170)
6	•39-29-3066	•39-31-0060	•39-31-0067	•39-31-0068	13.80 (.540)	8.40 (.330)
8	•39-29-3086	•39-31-0080	•39-31-0087	•39-31-0088	18.00 (.710)	12.60 (.500)
10	•39-29-3106	•39-31-0100	•39-31-0107	•39-31-0108	22.20 (.870)	16.80 (.660)
12	•39-29-3126	•39-31-0120	•39-31-0127	•39-31-0128	26.40 (1.040)	21.00 (.830)
14	•39-29-3146	•39-31-0140	•39-31-0147	•39-31-0148	30.60 (1.200)	25.20 (.990)
16	•39-29-3166	•39-31-0160	•39-31-0167	•39-31-0168	34.80 (1.370)	29.40 (1.160)
20	•39-29-3206		•39-31-0207		43.20 (1.700)	37.80 (1.490)
22	•39-29-3226		•39-31-0227		47.40 (1.870)	42.00 (1.650)

* US Standard Product, available through Molex franchised distributors

Without Drain Holes						
Circuits	Order No.				Dimension	
	Tin Plated		Gold Plated (30μ")		A	B
	94V-2	94V-0	94V-2	94V-0		
2	•39-28-1023	•39-28-8020	•39-29-0023	•39-29-6028	5.40 (.210)	
4	•39-28-1043	•39-28-8040	•39-29-0043	•39-29-6048	9.60 (.380)	4.20 (.170)
6	•39-28-1063	•39-28-8060	•39-29-0063	•39-29-6068	13.80 (.540)	8.40 (.330)
8	•39-28-1083	•39-28-8080	•39-29-0083	•39-29-6088	18.00 (.710)	12.60 (.500)
10	•39-28-1103	•39-28-8100	•39-29-0103	•39-29-6108	22.20 (.870)	16.80 (.660)
12	•39-28-1123	•39-28-8120	•39-29-0123	•39-29-6128	26.40 (1.040)	21.00 (.830)
14	•39-28-1143	•39-28-8140	•39-29-0143	•39-29-6148	30.60 (1.200)	25.20 (.990)
16	•39-28-1163	•39-28-8160	•39-29-0163	•39-29-6168	34.80 (1.370)	29.40 (1.160)
18	•39-28-1183	•39-28-8180	•39-29-0183	•39-29-6188	39.00 (1.540)	33.60 (1.320)
20	•39-28-1203	•39-28-8200	•39-29-0203	•39-29-6208	43.20 (1.700)	37.80 (1.490)
22	•39-28-1223	•39-28-8220	•39-29-0223	•39-29-6228	47.40 (1.870)	42.00 (1.650)
24	•39-28-1243	•39-28-8240	•39-29-0243	•39-29-6248	51.60 (2.030)	46.20 (1.820)

製品仕様書・PRODUCT SPECIFICATION

【1. 適用範囲 SCOPE】

本仕様書は、_____殿 に納入する

4. 2mmピッチ プリント基板用 コネクタ について規定する。

This specification covers the 4.2mm CENTER SPACING P.C. BOARD CONNECTOR series.

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

製 品 名 称 Product Name	製 品 型 番 Part Number
ターミナル Terminal (AWG #18~#24)	5 5 5 6 P B T, P B T L
ハウジング Housing (UL 94V-2)	5 5 5 7 - N R
ハウジング Housing (UL 94V-0)	5 5 5 7 - N R - 2 1 0
ヘッダー アッセンブリ (UL 94V-2) Header Assembly	5 5 6 6 - N A
ヘッダー アッセンブリ (UL 94V-0) Header Assembly	5 5 6 6 - N A - 2 1 0

N : 図面参照 Refer to the drawing.

【3. 定格及び適用電線 RATINGS AND APPLICABLE WIRES】

項 目 Item	規 格 Standard		
最大許容電圧 Rated Voltage(MAX.)	6 0 0 V [A C (実効値 rms) / D C]		
最大許容電流 及び適用電線 Rated Current (MAX.) and Applicable wires	A W G # 1 8	5 A	被覆外径 : Insulation O.D. φ 1.3 ~ φ 3.1mm
	A W G # 2 0	4 A	
	A W G # 2 2	3 A	
	A W G # 2 4	2 A	
使用温度範囲 Ambient temperature Range	- 4 0 ° C ~ + 1 0 5 ° C * ¹		

*¹: 通電による温度上昇分も含む。

Including terminal temperature rise.

【 4 . 性 能 PERFORMANCE】

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 10mA にて測定する。 (JIS C5402 5.4) Mate connectors, measure by dry circuit, 20mV MAX., 10mA. (JIS C5402 5.4)	10 mΩ MAX.
4-1-2	絶 縁 抵 抗 Insulation Resistance	コネクタを嵌合させ、隣接するターミナル間 及びターミナル、アース間に、DC 500V を 印加し測定する。 (JIS C5402 5.2/MIL-STD-202 試験法 302) Mate connectors, apply 500V DC between adjacent terminal or ground. (JIS C5402 5.2/MIL-STD-202 Method 302)	1000 MΩ MIN.
4-1-3	耐 電 圧 Dielectric Strength	コネクタを嵌合させ、隣接するターミナル間 及びターミナル、アース間に、 AC 1500V (実効値) を 1分間 印加する。 (JIS C5402 5.1/MIL-STD-202 試験法 301) Mate connectors, apply 1500V AC 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
4-1-4	圧着部接触抵抗 Contact Resistance on Crimped Portion	ターミナルに適合電線を圧着し、開放電圧 20mV 以下、短絡電流 10mA にて測定する。 Crimp the applicable wire on to the terminal, measure by dry circuit, 20mV MAX., 10mA.	5 mΩ MAX.

4-2. 機械的性能 Mechanical Performance

項 目 Item		条 件 Test Condition		規 格 Requirement
4-2-1	挿入力及び抜去力 Insertion and Withdrawal Force	毎分 $25 \pm 3\text{mm}$ の速さで挿入、抜去を行なう。 Insert and withdraw connectors at the speed rate of $25 \pm 3\text{mm/minute}$.		第 6 項 参 照 Refer to paragraph 6
4-2-2	圧着部引張り強度 Crimping Pull Out Force	圧着されたターミナルを治具に固定し、電線を軸方向に毎分 $25 \pm 3\text{mm}$ の速さで引張る。 (JIS C5402 6.8) Fix the crimped terminal, apply axial pull out force on the wire at the speed rate of $25 \pm 3\text{mm/minute}$. (JIS C5402 6.8)	AWG.#18	88.2 N {9.0 kgf} MIN.
			AWG.#20	58.8 N {6.0 kgf} MIN.
			AWG.#22	39.2 N {4.0 kgf} MIN.
			AWG.#24	29.4 N {3.0 kgf} MIN.
4-2-3	ターミナル挿入力 Terminal Insertion Force	圧着されたターミナルをハウジングに挿入する。 Insert the crimped terminal into the housing.		14.7 N {1.5 kgf} MAX.
4-2-4	ターミナル保持力 Terminal/ Housing Retention Force	圧着されたターミナルをハウジングに装着し、電線を軸方向に毎分 $25 \pm 3\text{mm}$ の速さで引張る。 Apply axial pull out force at the speed rate of $25 \pm 3\text{mm/minute}$ on the terminal assembled in the housing.		29.4 N {3.0 kgf} MIN.
4-2-5	ピン保持力 Pin Retention Force	毎分 $25 \pm 3\text{mm}$ の速さでピンを軸方向に押す。 Apply axial push force at the speed rate of $25 \pm 3\text{mm/minute}$.		9.8 N {1.0 kgf} MIN.

4-3. その他 Environmental Performance and Others

項 目 Item		条 件 Test Condition	規 格 Requirement	
4-3-1	繰返し挿抜 Repeated Insertion/ Withdrawal	1分間 10回 以下の速さで挿入、 抜去を 30回 繰返す。 When mated up to 30 cycles repeatedly by the rate of 10 cycles per minute.	接触抵抗 Contact Resis- tance	20 mΩ MAX.
4-3-2	温度上昇 Temperature Rise	コネクタを嵌合させ、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) Carrying rated current load. (UL 498)	温度上昇 Tempera- ture rise	30 °C MAX.
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 10~55~10 Hz/分 全振幅 1.5mm の振動を 各2時間 加える。 (MIL-STD-202 試験法 201) Amplitude: 1.5mm P-P Sweep time: 10-55-10 Hz in 1 minute Duration: 2 hours in each X.Y.Z. axes (MIL-STD-202 Method 201)	外 観 Appearance	異状なきこと No Damage
			接触抵抗 Contact Resistance	20 mΩ MAX.
			瞬断 Dis- continuity	1 μsec.MAX.
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 C0041/MIL-STD-202 試験法 213) 490m/S ² {50G} , 3 strokes in each X.Y.Z. axes. (JIS C0041 MIL-STD-202 Method 213)	外 観 Appearance	異状なきこと No Damage
			接触抵抗 Contact Resistance	20 mΩ MAX.
			瞬断 Dis- continuity	1 μsec.MAX.
4-3-5	耐熱性 Heat Resistance	コネクタを嵌合させ、105±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 C0021/MIL-STD-202 試験法 108) 105±2°C, 96 hours (JIS C0021/MIL-STD-202 Method 108)	外 観 Appearance	異状なきこと No Damage
			接触抵抗 Contact Resistance	20 mΩ MAX.
4-3-6	耐寒性 Cold Resistance	コネクタを嵌合させ、-40±3°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 C0020) -40±3°C, 96 hours (JIS C0020)	外 観 Appearance	異状なきこと No Damage
			接触抵抗 Contact Resistance	20 mΩ MAX.

項 目 Item		条 件 Test Condition	規 格 Requirement	
4-3-7	耐 湿 性 Humidity	コネクタを嵌合させ、 $60\pm 2^{\circ}\text{C}$ 、 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 C0022/MIL-STD-202 試験法 103) Temperature: $60\pm 2^{\circ}\text{C}$ Relative Humidity: 90~95% Duration: 96 hours (JIS C0022/MIL-STD-202 Method 103)	外 観 Appearance	異状なきこと No Damage
			接触抵抗 Contact Resistance	20 m Ω MAX.
			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	100 M Ω MIN.
4-3-8	温 度 サ イ ク ル Temperature Cycling	コネクタを嵌合させ、 -55°C に 30分、 $+105^{\circ}\text{C}$ に 30分 これを 1 サイクル とし、5サイクル 繰返す。 但し、温度移行時間は 5分 以内と する。試験後 1~2時間 室温に 放置する。(JIS C0025) 5 cycles of: a) -55°C 30 minutes b) $+105^{\circ}\text{C}$ 30 minutes (JIS C0025)	外 観 Appearance	異状なきこと No Damage
			接触抵抗 Contact Resistance	20 m Ω MAX.
4-3-9	塩 水 噴 霧 Salt Spray	コネクタを嵌合させ、 $35\pm 2^{\circ}\text{C}$ にて $5\pm 1\%$ 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 C0023/MIL-STD-202 試験法 101) 48 ± 4 hours exposure to a salt spray from the $5\pm 1\%$ solution at $35\pm 2^{\circ}\text{C}$. (JIS C0023/MIL-STD- 202 Method 101)	外 観 Appearance	異状なきこと No Damage
			接触抵抗 Contact Resistance	20 m Ω MAX.
4-3-10	亜 硫 酸 ガ ス SO_2 Gas	コネクタを嵌合させ、 $40\pm 2^{\circ}\text{C}$ にて $50\pm 5\text{ppm}$ の亜硫酸ガス中に 24時間 放置する。 24 hours exposure to $50\pm 5\text{ppm}$. SO_2 gas at $40\pm 2^{\circ}\text{C}$.	外 観 Appearance	異状なきこと No Damage
			接触抵抗 Contact Resistance	20 m Ω MAX.
4-3-11	半 田 付 け 性 Solder- ability	ターミナルまたはピンをフラックス に浸し、本体の取付け基準面より 1.2mm 迄、 $230\pm 5^{\circ}\text{C}$ の半田に 3 ± 0.5 秒 浸す。 Soldering Time: 3 ± 0.5 sec. Solder Temperature: $230\pm 5^{\circ}\text{C}$	濡 れ 性 Solder Wetting	浸漬面積の 75%以上 75% of immersed area must show no voids, pin holes

項 目 Item		条 件 Test Condition	規 格 Requirement	
4-3-12	半 田 耐 熱 性 Resistance to Solder- ing Heat	ターミナルまたはピンを本体の取付け 基準面より 1.2mm 迄、 $260\pm 5^{\circ}\text{C}$ の半 田に 5 ± 0.5 秒 浸す。 Solder Temperature: $260\pm 5^{\circ}\text{C}$ Soldering Time: 5 ± 0.5 sec.	外 観 Appearance	端子ガタ、 割れ等 異状なきこと No Damage

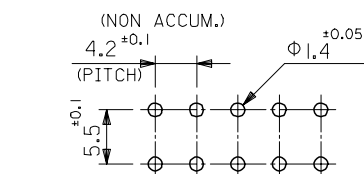
() : 参考規格
Reference Standard

【 5 . 外 観 形 状、寸 法 及 び 材 質 PRODUCT SHAPE, DIMENSIONS AND MATERIALS】

図面参照 Refer to the drawing.

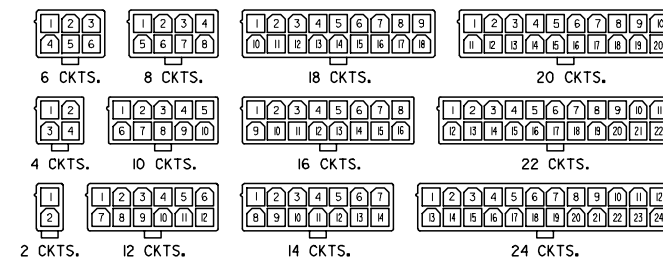
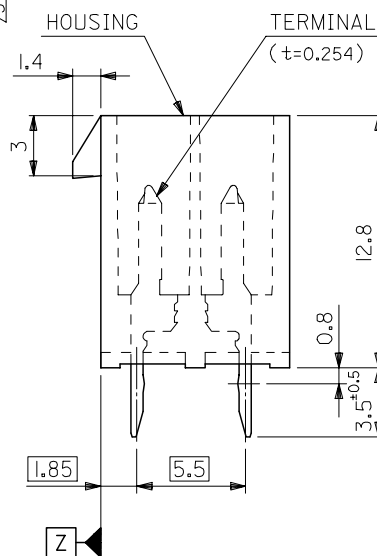
【 6 . 挿入力及び抜去力 INSERTION/WITHDRAWAL FORCE】

極 数 No. of CKT	単位 UNIT	挿入力 (最大値) Insertion (MAX.)			抜去力 (最小値) Withdrawal (MIN.)		
		初 回 1st	6 回目 6th	30回目 30th	初 回 1st	6 回目 6th	30回目 30th
2	N kgf	13.8 {1.4}	12.8 {1.3}	12.8 {1.3}	0.98 {0.10}	0.78 {0.08}	0.78 {0.08}
4	N kgf	27.5 {2.8}	25.5 {2.6}	25.5 {2.6}	1.96 {0.20}	1.56 {0.16}	1.56 {0.16}
6	N kgf	41.2 {4.2}	38.3 {3.9}	38.3 {3.9}	2.94 {0.30}	2.35 {0.24}	2.35 {0.24}
8	N kgf	54.9 {5.6}	51.0 {5.2}	51.0 {5.2}	3.92 {0.40}	3.13 {0.32}	3.13 {0.32}
1 0	N kgf	68.6 {7.0}	63.7 {6.5}	63.7 {6.5}	4.90 {0.50}	3.92 {0.40}	3.92 {0.40}
1 2	N kgf	82.4 {8.4}	76.5 {7.8}	76.5 {7.8}	5.88 {0.60}	4.70 {0.48}	4.70 {0.48}
1 4	N kgf	96.1 {9.8}	89.2 {9.1}	89.2 {9.1}	6.86 {0.70}	5.48 {0.56}	5.48 {0.56}
1 6	N kgf	109.8 {11.2}	102.0 {10.4}	102.0 {10.4}	7.84 {0.80}	6.27 {0.64}	6.27 {0.64}
1 8	N kgf	123.5 {12.6}	114.7 {11.7}	114.7 {11.7}	8.82 {0.90}	7.05 {0.72}	7.05 {0.72}
2 0	N kgf	137.2 {14.0}	127.4 {13.0}	127.4 {13.0}	9.80 {1.00}	7.84 {0.80}	7.84 {0.80}
2 2	N kgf	151.0 {15.4}	140.2 {14.3}	140.2 {14.3}	10.78 {1.10}	8.62 {0.88}	8.62 {0.88}
2 4	N kgf	164.7 {16.8}	152.9 {15.6}	152.9 {15.6}	11.76 {1.20}	9.40 {0.96}	9.40 {0.96}



RECOMMENDED P.C. BOARD PATTERN
(SCALE 2 : 1)

51.6	46.2	24
47.4	42	22
43.2	37.8	20
39	33.6	18
34.8	29.4	16
30.6	25.2	14
26.4	21	12
22.2	16.8	10
18	12.6	8
13.8	8.4	6
9.6	4.2	4
5.4	—	2
DIM. B	DIM. A	CKT. SIZE



CIRCUIT SIZE LAYOUT
(SCALE 1:1)

NOTES

1. MATE WITH : 5557 SERIES
2. LEGEND

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BASE NUMBER _____
CIRCUIT SIZE _____
ASS'Y TYPE _____
    A : WITHOUT DRAIN HOLES
    B : WITH DRAIN HOLES
TERMINAL MATERIAL _____
"BLANK" : BRASS
    PB : PHOSPHOR BRONZE
TERMINAL PLATING _____
"BLANK" : BRIGHT TIN 0.9µm MIN. OVER COPPER 0.5µm MIN. (BRASS)
          TIN 0.9µm MIN. REFLOW TREATMENT
          OR BRIGHT TIN 0.9µm MIN. (PHOSPHOR BRONZE)
    S : BRIGHT TIN 2.54µm MIN. OVER NICKEL 1.27µm MIN.
    GS : SELECT GOLD 0.76µm MIN. AND SELECT PURE TIN 2.54µm MIN.
          OVER NICKEL 1.27µm MIN.
    GS2 : SELECT GOLD 0.38µm MIN. AND SELECT PURE TIN 2.54µm MIN.
          OVER NICKEL 1.27µm MIN.
HOUSING MATERIAL _____
"BLANK" : NYLON 66, UL94V-2
          210 : NYLON 66, UL94V-0
          310 : G.F. 30% PCT, UL94V-0
          400 : NYLON 66, UL94V-0, BLACK

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BL : BLACK RE : RED GR : GRAY
BU : BLUE YE : YELLOW 5566-N***-***

3	EXTERNAL RIB APPEARS ON MX-USA PARTS ONLY.	MODEL NO.
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REVISED EC NO: J2005-3557 DRAWN: WABEI CHKD: KJTO APPR: NUKITA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		10 UNDER	± 0.2	DRAWN BY H. HIRAMOTO	DATE '89/04/03	TITLE NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE-				
		10 OVER 30 UNDER	± 0.3	CHECKED BY M. FUKUSHIMA	DATE '94/04/20					
		30 OVER	± 0.4	APPROVED BY M. FUKUSHIMA	DATE '94/04/20	MOLEX MOLEX INCORPORATED				
		ANGULAR ±3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-5566-002		1 OF 5		
	REV	K	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

[illegible]

	10	9	8	7	6	5	4	3	2	1	
F	NOT TOOLED	5566-24BGS2-3 IO	NOT TOOLED	5566-24BGS-3 IO	NOT TOOLED	5566-24BS-3 IO	NOT TOOLED	5566-24B-3 IO	NOT TOOLED	5566-24APBS-3 IO	24
	↑	↑ -22BGS2-3 IO	↑	↑ -22BGS-3 IO	↑	↑ -22BS-3 IO	↑	↑ -22B-3 IO	↑	↑ -22APBS-3 IO	22
		-20BGS2-3 IO		-20BGS-3 IO		-20BS-3 IO		-20B-3 IO		-20APBS-3 IO	20
		-18BGS2-3 IO		-18BGS-3 IO		-18BS-3 IO		-18B-3 IO		-18APBS-3 IO	18
		-16BGS2-3 IO		-16BGS-3 IO		-16BS-3 IO		-16B-3 IO		-16APBS-3 IO	16
		-14BGS2-3 IO		-14BGS-3 IO		-14BS-3 IO		-14B-3 IO		-14APBS-3 IO	14
		-12BGS2-3 IO		-12BGS-3 IO		-12BS-3 IO		-12B-3 IO		-12APBS-3 IO	12
		-10BGS2-3 IO		-10BGS-3 IO		-10BS-3 IO		-10B-3 IO		-10APBS-3 IO	10
		-08BGS2-3 IO		-08BGS-3 IO		-08BS-3 IO		-08B-3 IO		-08APBS-3 IO	8
		-06BGS2-3 IO		-06BGS-3 IO		-06BS-3 IO		-06B-3 IO		-06APBS-3 IO	6
	↓ -04BGS2-3 IO		↓ -04BGS-3 IO		↓ -04BS-3 IO		↓ -04B-3 IO		↓ -04APBS-3 IO	4	
NOT TOOLED	5566-02BGS2-3 IO	NOT TOOLED	5566-02BGS-3 IO	NOT TOOLED	5566-02BS-3 IO	NOT TOOLED	5566-02B-3 IO	NOT TOOLED	5566-02APBS-3 IO	2	
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	CKT. SIZE	
5566-NBGS2-3 IO		5566-NBGS-3 IO		5566-NBS-3 IO		5566-NB-3 IO		5566-NAPBS-3 IO			
39-30-9247	5566-24BGS2-2 IO	39-31-0248	5566-24BGS-2 IO	39-31-0242	5566-24BS-2 IO	39-31-0240	5566-24B-2 IO	39-30-6244	5566-24APBS-2 IO	24	
↑ -9227	↑ -22BGS2-2 IO	↑ -0228	↑ -22BGS-2 IO	↑ -0222	↑ -22BS-2 IO	↑ -0220	↑ -22B-2 IO	↑ -6224	↑ -22APBS-2 IO	22	
	-9207		-0208		-0202		-0200		-6204	-20APBS-2 IO	20
	-9187		-0188		-0182		-0180		-6184	-18APBS-2 IO	18
	-9167		-0168		-0162		-0160		-6164	-16APBS-2 IO	16
	-9147		-0148		-0142		-0140		-6144	-14APBS-2 IO	14
	-9127		-0128		-0122		-0120		-6124	-12APBS-2 IO	12
	-9107		-0108		-0102		-0100		-6104	-10APBS-2 IO	10
	-9087		-0088		-0082		-0080		-6084	-08APBS-2 IO	8
	-9067		-0068		-0062		-0060		-6064	-06APBS-2 IO	6
	↓ -9047	↓ -04BGS2-2 IO	↓ -0048	↓ -04BGS-2 IO	↓ -0042	↓ -04BS-2 IO	↓ -0040	↓ -04B-2 IO	↓ -6044	↓ -04APBS-2 IO	4
39-30-9027	5566-02BGS2-2 IO	39-31-0028	5566-02BGS-2 IO	39-31-0022	5566-02BS-2 IO	39-31-0020	5566-02B-2 IO	39-30-6024	5566-02APBS-2 IO	2	
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	CKT. SIZE	
5566-NBGS2-2 IO		5566-NBGS-2 IO		5566-NBS-2 IO		5566-NB-2 IO		5566-NAPBS-2 IO			
39-30-9246	5566-24BGS2	39-31-0247	5566-24BGS	39-31-0241	5566-24BS	39-29-3246	5566-24B	39-30-6243	5566-24APBS	24	
↑ -9226	↑ -22BGS2	↑ -0227	↑ -22BGS	↑ -0221	↑ -22BS	↑ -3226	↑ -22B	↑ -6223	↑ -22APBS	22	
	-9206		-0207		-0201		-20B		-6203	-20APBS	20
	-9186		-0187		-0181		-18B		-6183	-18APBS	18
	-9166		-0164		-0161		-16B		-6163	-16APBS	16
	-9146		-0147		-0141		-14B		-6143	-14APBS	14
	-9126		-0127		-0121		-12B		-6123	-12APBS	12
	-9106		-0107		-0101		-10B		-6103	-10APBS	10
	-9086		-0087		-0081		-08B		-6083	-08APBS	8
	-9066		-0067		-0061		-06B		-6063	-06APBS	6
	↓ -9046	↓ -04BGS2	↓ -0047	↓ -04BGS	↓ -0041	↓ -04BS	↓ -0046	↓ -04B	↓ -6043	↓ -04APBS	4
39-30-9026	5566-02BGS2	39-31-0027	5566-02BGS	39-31-0021	5566-02BS	39-29-3026	5566-02B	39-30-6023	5566-02APBS	2	
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	CKT. SIZE	
5566-NBGS2		5566-NBGS		5566-NBS		5566-NB		5566-NAPBS			

REVISED	EC NO: J2005-3557 2005/06/06 DRAWN:WABEI 2005/06/07 CHKD:K10 JO APPR:NUK I TA	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
			10 UNDER	± ---	DRAWN BY H.HIRAMOTO	DATE '89/04/03	TITLE NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE-  MOLEX INCORPORATED		
			10 OVER 30 UNDER	± ---	CHECKED BY M.FUKUSHIMA	DATE '94/04/20			
			30 OVER	± ---	APPROVED BY M.FUKUSHIMA	DATE '94/04/20			
			ANGULAR ± --- °		MATERIAL NO.			DOCUMENT NO.	
K	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-5566-002		SHEET NO. 3 OF 5	
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

tb_frame_A3_J_ME_S Rev. D 2004/04/02	9	8	7	6	5	4	3	2	EN-02JA(021)
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F							NOT	TOOLED	5566-24BPBS-3 IO	NOT	TOOLED	5566-24BPB-3 IO	24	F									
								▲		▲		▲	-22BPBS-3 IO		22								
													-20BPBS-3 IO		20								
													-18BPBS-3 IO		18								
													-16BPBS-3 IO		16								
													-14BPBS-3 IO		14								
													-12BPBS-3 IO		12								
													-10BPBS-3 IO		10								
													-08BPBS-3 IO		8								
													-06BPBS-3 IO		6								
E								▼		▼		▼	-04BPBS-3 IO	4	E								
							NOT	TOOLED	5566-02BPBS-3 IO	NOT	TOOLED	5566-02BPB-3 IO	2										
							EDP NO.		ENG. NO	EDP NO.		ENG. NO		CKT. SIZE									
							5566-NBPBS-3 IO			5566-NBPB-3 IO													
							39-31-0246		5566-24BPBS-2 IO	39-31-0244		5566-24BPB-2 IO	24										
							▲	-0226	▲	-22BPBS-2 IO	▲	-0224	▲	-22BPB-2 IO		22							
								-0206		-20BPBS-2 IO		-0204		-20BPB-2 IO		20							
								-0186		-18BPBS-2 IO		-0184		-18BPB-2 IO		18							
								-0166		-16BPBS-2 IO		-0164		-16BPB-2 IO		16							
								-0146		-14BPBS-2 IO		-0144		-14BPB-2 IO		14							
D								-0126		-12BPBS-2 IO		-0124		-12BPB-2 IO	12	D							
								-0106		-10BPBS-2 IO		-0104		-10BPB-2 IO	10								
								-0086		-08BPBS-2 IO		-0084		-08BPB-2 IO	8								
								-0066		-06BPBS-2 IO		-0064		-06BPB-2 IO	6								
								-0046		-04BPBS-2 IO		-0044		-04BPB-2 IO	4								
							▼		▼	-04BPBS-2 IO	▼		▼	-04BPB-2 IO	4								
							39-31-0026		5566-02BPBS-2 IO	39-31-0024		5566-02BPB-2 IO	2										
							EDP NO.		ENG. NO	EDP NO.		ENG. NO		CKT. SIZE									
							5566-NBPBS-2 IO			5566-NBPB-2 IO													
							C							39-35-0248			5566-24A-400	39-31-0245		5566-24BPBS	39-31-0243	5566-24BPB	24
▲	-0228	▲	-22A-400	▲	-0225	▲								-22BPBS	22								
	-0208		-20A-400		-0205									-20BPBS	20								
	-0188		-18A-400		-0185									-18BPBS	18								
	-0168		-16A-400		-0165									-16BPBS	16								
	-0148		-14A-400		-0145									-14BPBS	14								
	-0128		-12A-400		-0125									-12BPBS	12								
	-0108		-10A-400		-0105									-10BPBS	10								
	-0088		-08A-400		-0085									-08BPBS	8								
	-0068		-06A-400		-0065									-06BPBS	6								
B							▼	-0048	▼	-04A-400	▼	-0045	▼	-04BPBS	4	B							
							39-35-0028		5566-02A-400	39-31-0025		5566-02BPBS	39-31-0023	5566-02BPB	2								
							EDP NO.		ENG. NO	EDP NO.		ENG. NO		CKT. SIZE									
							5566-NA-400			5566-NBPBS			5566-NBPB										
																						A	
A																							
REVISED EC NO: J2005-3557 DRWN: NABEI CHKD: KTOJO APPR: NUKITA 2005/06/06 2005/06/07 2005/06/10							10 UNDER	± ---	DRAWN BY H. HIRAMOTO	DATE '89/04/03	TITLE NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE-												
							10 OVER 30 UNDER	± ---	CHECKED BY M. FUKUSHIMA	DATE '94/04/20													
							30 OVER	± ---	APPROVED BY M. FUKUSHIMA	DATE '94/04/20													
							ANGULAR	± --- °	MATERIAL NO.		DOCUMENT NO. SD-5566-002												
							DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART														
K							SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					SHEET NO. 4 OF 5									
ib_frame_A3_J_ME_S Rev. D 2004/04/02																							
													EN-02JA(021)										

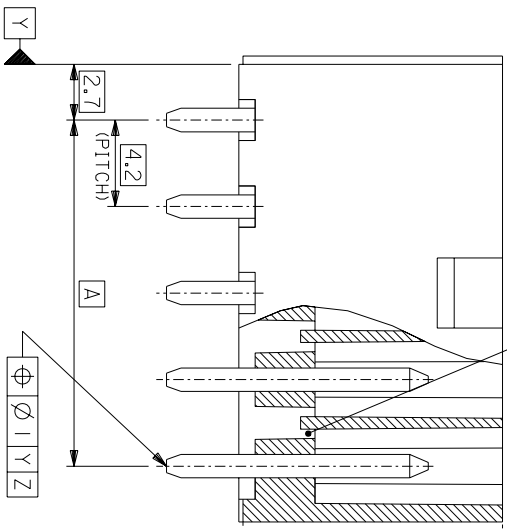


Figure 6 shows the first 24 CKTs. The top row contains two sets of three CKTs each, labeled 6 CKTs., 8 CKTs., 10 CKTs., 12 CKTs., 14 CKTs., and 16 CKTs. Each set consists of three small rectangular boxes representing circuit components. The bottom row contains two sets of three CKTs each, labeled 18 CKTs., 20 CKTs., 22 CKTs., and 24 CKTs. These also consist of three small rectangular boxes each.

The figure displays 24 distinct circuit configurations (CKTs) organized into two horizontal rows of six groups. Each group contains three individual circuit diagrams. The top row includes groups labeled '6 CKTs.', '8 CKTs.', '10 CKTs.', '12 CKTs.', '14 CKTs.', and '16 CKTs.'. The bottom row includes groups labeled '18 CKTs.', '20 CKTs.', '22 CKTs.', and '24 CKTs.'. Each circuit diagram is represented by a rectangular box containing numbered nodes and connecting lines, illustrating various electronic circuit topologies.

1. MATE WITH : 5557 SERIES
2. LEGEND

BASE NUMBER
CIRCUIT SIZE
ASS'Y TYPE

A : WITHOUT DRAIN HOLES

B : WITH DRAIN HOLES

TERMINAL MATERIAL
"BLANK": BRASS

PHOSPHOR BRONZE

TERMINAL PLATING

"BLANK": BRIGHT TIN $\varnothing.9\mu\text{m}$ MIN. OVER COPPER $\varnothing.5\mu\text{m}$ MIN. (BRASS)

IN 0.9μm MIN. REFLOW IRREASURABLE

: BRIGHT TIN 2.54μm MIN.OVER NICKEL 1.27μm MIN.

OVER NICKEL 1.27 μ m MIN.

G32 : SELECT GOLD 0.38 μ m MIN. AND SELECT PURE TIN 2.54 μ m MIN.
OVER NICKEL 1.27 μ m MIN.

HOUSING MATERIAL _____

"BLANK": NYLON 66, UL94V-2

210 : NYLON 66, UL94V-0

310 : G.F. 30% PCT, UL94V-0
400 : NY10N-66 III 94V-0 BLACK

EXTERNAL RIB APPEARS ON MX-USA PARTS ONLY.

RECOMMENDED P.C. BOARD PATTERN
(SCALE 2 : 1)

W:

DWG. NO. SD-5566-N****-*									
NOT TOOLED	5566-24BGS2-310	NOT TOOLED	5566-24BGS-310	NOT TOOLED	5566-24BS-310	NOT TOOLED	5566-24B-310	NOT TOOLED	5566-24APBS-310
▲	▲ -22BGS2-310	▲	▲ -22BGS-310	▲	▲ -22BS-310	▲	▲ -22B-310	▲	▲ -22APBS-310
	-20BGS2-310		-20BGS-310		-20BS-310		-20B-310		-20APBS-310
	-18BGS2-310		-18BGS-310		-18BS-310		-18B-310		-18APBS-310
	-16BGS2-310		-16BGS-310		-16BS-310		-16B-310		-16APBS-310
	-14BGS2-310		-14BGS-310		-14BS-310		-14B-310		-14APBS-310
	-12BGS2-310		-12BGS-310		-12BS-310		-12B-310		-12APBS-310
	-10BGS2-310		-10BGS-310		-10BS-310		-10B-310		-10APBS-310
	-08BGS2-310		-08BGS-310		-08BS-310		-08B-310		-08APBS-310
	-06BGS2-310		-06BGS-310		-06BS-310		-06B-310		-06APBS-310
▼	▼ -04BGS2-310	▼	▼ -04BGS-310	▼	▼ -04BS-310	▼	▼ -04B-310	▼	▼ -04APBS-310
NOT TOOLED	5566-02BGS2-310	NOT TOOLED	5566-02BGS-310	NOT TOOLED	5566-02BS-310	NOT TOOLED	5566-02B-310	NOT TOOLED	5566-02APBS-310
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.

5566-NBGS2-310									
39-30-9247	5566-24BGS2-210	39-31-0248	5566-24BGS-210	39-31-0242	5566-24BS-210	39-31-0240	5566-24B-210	39-30-6244	5566-24APBS-210
▲	▲ -22BGS2-210	▲ -0228	▲ -22BGS-210	▲ -0222	▲ -22BS-210	▲ -0220	▲ -22B-210	▲ -6224	▲ -22APBS-210
-9207	-20BGS2-210	-0208	-20BGS-210	-0202	-20BS-210	-0200	-20B-210	-6204	-20APBS-210
-9187	-18BGS2-210	-0188	-18BGS-210	-0182	-18BS-210	-0180	-18B-210	-6184	-18APBS-210
-9167	-16BGS2-210	-0168	-16BGS-210	-0162	-16BS-210	-0160	-16B-210	-6164	-16APBS-210
-9147	-14BGS2-210	-0148	-14BGS-210	-0142	-14BS-210	-0140	-14B-210	-6144	-14APBS-210
-9127	-12BGS2-210	-0128	-12BGS-210	-0122	-12BS-210	-0120	-12B-210	-6124	-12APBS-210
-9107	-10BGS2-210	-0108	-10BGS-210	-0102	-10BS-210	-0100	-10B-210	-6104	-10APBS-210
-9087	-08BGS2-210	-0088	-08BGS-210	-0082	-08BS-210	-0080	-08B-210	-6084	-08APBS-210
-9067	-06BGS2-210	-0068	-06BGS-210	-0062	-06BS-210	-0060	-06B-210	-6064	-06APBS-210
▼ -9047	▼ -04BGS2-210	▼ -0048	▼ -04BGS-210	▼ -0042	▼ -04BS-210	▼ -0040	▼ -04B-210	▼ -6044	▼ -04APBS-210
39-30-9027	5566-02BGS2-210	39-31-0028	5566-02BGS-210	39-31-0022	5566-02BS-210	39-31-0020	5566-02B-210	39-30-6024	5566-02APBS-210
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.

5566-NBGS2-210									
39-30-9246	5566-24BGS2	39-31-0247	5566-24BGS	39-31-0241	5566-24BS	39-29-3246	5566-24B	39-30-6243	5566-24APBS
▲	▲ -22BGS2	▲ -0227	▲ -22BGS	▲ -0221	▲ -22BS	▲ -3226	▲ -22B	▲ -6223	▲ -22APBS
-9206	-20BGS2	-0207	-20BGS	-0201	-20BS	-3206	-20B	-6203	-20APBS
-9186	-18BGS2	-0187	-18BGS	-0181	-18BS	-3186	-18B	-6183	-18APBS
-9166	-16BGS2	-0164	-16BGS	-0161	-16BS	-3166	-16B	-6163	-16APBS
-9146	-14BGS2	-0147	-14BGS	-0141	-14BS	-3146	-14B	-6143	-14APBS
-9126	-12BGS2	-0127	-12BGS	-0121	-12BS	-3126	-12B	-6123	-12APBS
-9106	-10BGS2	-0107	-10BGS	-0101	-10BS	-3106	-10B	-6103	-10APBS
-9086	-08BGS2	-0087	-08BGS	-0081	-08BS	-3086	-08B	-6083	-08APBS
-9066	-06BGS2	-0067	-06BGS	-0061	-06BS	-3066	-06B	-6063	-06APBS
▼ -9046	▼ -04BGS2	▼ -0047	▼ -04BGS	▼ -0041	▼ -04BS	▼ -3046	▼ -04B	▼ -6043	▼ -04APBS
39-30-9026	5566-02BGS2	39-31-0027	5566-02BGS	39-31-0021	5566-02BS	39-29-3026	5566-02B	39-30-6023	5566-02APBS
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.

材料 MATERIAL										MOLEX-JAPAN CO.,LTD. モレックス株式会社									
SEE NOTE 2										REVISE ONLY ON CAD SYSTEM									
仕上り FINISH										TITLE 名称									
SEE NOTE 2										NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE-									
M/N K.T 94/5/73										DWG. NO. SHEET 3 OF 4 REV									
H/H M/F 94/4/8										SD-5566-N*****									
適用電線範囲 WIRE RANGE										J									
H/H Y.Y 93/3/7																			
H/H Y.Y 90/6/8																			
被覆外径 INS. RANGE																			
H/H Y.Y 89/8/73																			
DRAWN BY 89/4/3																			
H.HIRAMOTO																			
M.FUKUSHIMA																			
DATE 89/4/3																			
M.FUKUSHIMA																			
SCALE																			
一般公差 GENERAL TOLERANCES																			
LTR																			
変更内容 REVISION RECORD																			
D SEE SHEET 1 OF 4																			
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DWG. NO.
SD-5566-N****-

MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

		NOT TOOLED	5566-24BPS-310	NOT TOOLED	5566-24BPB-310	24
		▲	-22BPS-310	▲	-22BPB-310	22
			-20BPS-310		-20BPB-310	20
			-18BPS-310		-18BPB-310	18
			-16BPS-310		-16BPB-310	16
			-14BPS-310		-14BPB-310	14
			-12BPS-310		-12BPB-310	12
			-10BPS-310		-10BPB-310	10
			-08BPS-310		-08BPB-310	8
			-06BPS-310		-06BPB-310	6
		▼	-04BPS-310	▼	-04BPB-310	4
NOT TOOLED		5566-02BPS-310	NOT TOOLED	5566-02BPB-310	2	
EDP NO.		ENG. NO	EDP NO.	ENG. NO	CKT. SIZE	
5566-NBPS-310						
39-31-0246	5566-24BPS-210	39-31-0244	5566-24BPB-210	24		
▲ -0226	-22BPS-210	▲ -0224	-22BPB-210	22		
-0206	-20BPS-210	-0204	-20BPB-210	20		
-0186	-18BPS-210	-0184	-18BPB-210	18		
-0166	-16BPS-210	-0164	-16BPB-210	16		
-0146	-14BPS-210	-0144	-14BPB-210	14		
-0126	-12BPS-210	-0124	-12BPB-210	12		
-0106	-10BPS-210	-0104	-10BPB-210	10		
-0086	-08BPS-210	-0084	-08BPB-210	8		
-0066	-06BPS-210	-0064	-06BPB-210	6		
▼ -0046	-04BPS-210	▼ -0044	-04BPB-210	4		
39-31-0026	5566-02BPS-210	39-31-0024	5566-02BPB-210	2		
EDP NO.		ENG. NO	EDP NO.	ENG. NO	CKT. SIZE	
5566-NBPS-210						
39-31-0245	5566-24BPS	39-31-0243	5566-24BPB	24		
▲ -0225	-22BPS	▲ -0223	-22BPB	22		
-0205	-20BPS	-0203	-20BPB	20		
-0185	-18BPS	-0183	-18BPB	18		
-0165	-16BPS	-0163	-16BPB	16		
-0145	-14BPS	-0143	-14BPB	14		
-0125	-12BPS	-0123	-12BPB	12		
-0105	-10BPS	-0103	-10BPB	10		
-0085	-08BPS	-0083	-08BPB	8		
-0065	-06BPS	-0063	-06BPB	6		
▼ -0045	-04BPS	▼ -0043	-04BPB	4		
39-31-0025	5566-02BPS	39-31-0023	5566-02BPB	2		
EDP NO.		ENG. NO	EDP NO.	ENG. NO	CKT. SIZE	
5566-NBPS						
5566-NBPS						
5566-NBPS						
5566-NA-400						
39-35-0248	5566-24A-400	39-31-0245	5566-24BPS	39-31-0243	5566-24BPB	24
▲ -0228	-22A-400	▲ -0225	-22BPS	▲ -0223	-22BPB	22
-0208	-20A-400	-0205	-20BPS	-0203	-20BPB	20
-0188	-18A-400	-0185	-18BPS	-0183	-18BPB	18
-0168	-16A-400	-0165	-16BPS	-0163	-16BPB	16
-0148	-14A-400	-0145	-14BPS	-0143	-14BPB	14
-0128	-12A-400	-0125	-12BPS	-0123	-12BPB	12
-0108	-10A-400	-0105	-10BPS	-0103	-10BPB	10
-0088	-08A-400	-0085	-08BPS	-0083	-08BPB	8
-0068	-06A-400	-0065	-06BPS	-0063	-06BPB	6
▼ -0048	-04A-400	▼ -0045	-04BPS	▼ -0043	-04BPB	4
39-35-0028	5566-02A-400	39-31-0025	5566-02BPS	39-31-0023	5566-02BPB	2
EDP NO.		ENG. NO	EDP NO.	ENG. NO	CKT. SIZE	
5566-NBPS						

		24		材料 MATERIAL		MOLEX-JAPAN CO.,LTD. molex 日本モリスツクス株式会社	
5566-N****-	J	SEE SHEET 1 OF 4	M.N.	94/5/3	SEE NOTE 2	REVISE ONLY ON CAD SYSTEM	
MODEL NO.	H	SEE SHEET 1 OF 4	H.H.	94/4/9	SEE NOTE 2	TITLE 名称	
			M.F	FINISH		NEW MINI FIT CONNECTOR	
角度 ANGLE	G	SEE SHEET 1 OF 4	H.H.	適用電線範囲		HEADER HOUSING ASS'Y	
30°以上	F	SEE SHEET 1 OF 4	H.H.	94/3/7		-LEAD FREE-	
10°以上	E	SEE SHEET 1 OF 4	H.H.	90/6/8			
10°以上	E	SEE SHEET 1 OF 4	H.H.	密着外径			
10°以上	E	SEE SHEET 1 OF 4	H.H.	INS. RANGE			
10°以上	E	SEE SHEET 1 OF 4	H.H.	93/8/3			
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