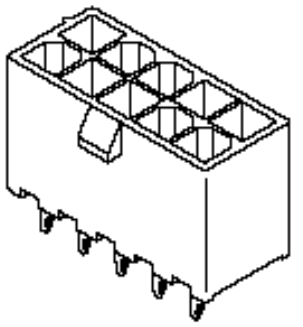
This document was generated on 05/21/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0039288140
Status: Active
Overview: minifit_jr
Description: 4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, without Snap-in Plastic Peg PCB Lock, 14 Circuits, PA Polyamide Nylon 6/6 94V-0, Tin (Sn) Plating, without Drain Holes



Series image - Reference only

Documents:
3D Model
Drawing (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
TUV	R72081037
UL	E29179

General

Product Family	PCB Headers
Series	5566
Application	Wire-to-Board
Comments	Current = 13A max. per circuit when header is mated to a receptacle loaded with 45750 Mini-Fit Plus HCS™ Crimp Terminal Crimpted to to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.. Glow Wire Equivalent Part Number 50361888. Square Pin, Solder Type
Overview	minifit_jr
Product Name	Mini-Fit Jr.™

Physical

Breakaway	No
Circuits (Loaded)	14
Circuits (maximum)	14
Color - Resin	Natural
Durability (mating cycles max)	30
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.138 In
PC Tail Length (mm)	3.50 mm
PCB Locator	Yes
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.165 In
Pitch - Mating Interface (mm)	4.20 mm

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

China RoHS

Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, click here

Please visit the Contact Us section for any non-product compliance questions.

Search Parts in this Series
5566Series

Mates With
5557 Mini-Fit Jr.™ Receptacle Housing

Pitch - Term. Interface (in)	0.165 In
Pitch - Term. Interface (mm)	4.20 mm
Plating min: Mating (µin)	35
Plating min: Mating (µm)	0.90
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.50
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	13A
Voltage - Maximum	600V

Material Info

Old Part Number	5566-14A-210

Reference - Drawing Numbers

Packaging Specification	PK-5566, SPK-5566-002
Product Specification	RPS-5557-036, RPS-5557-058
Sales Drawing	SD-5566-002, SD-5566-NA**-*

This document was generated on 05/21/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

CIRCUIT SIZE	DIM. "A"	DIM. "B"
2	.21 (5.4)	—
4	.38 (9.6)	.17 (4.2)
6	.54 (13.8)	.33 (8.4)
8	.71 (18.0)	.50 (12.6)
10	.87 (22.2)	.66 (16.8)
12	1.04 (26.4)	.83 (21.0)
14	1.20 (30.6)	.99 (25.2)
16	1.37 (34.8)	1.16 (29.4)
18	1.54 (39.0)	1.32 (33.6)
20	1.70 (43.2)	1.49 (37.8)
22	1.87 (47.4)	1.65 (42.0)
24	2.03 (51.6)	1.82 (46.2)

LEGEND

5566 - N * * * - * - *

BASE NUMBER

CIRCUIT SIZE

ASS'Y TYPE
A : WITHOUT DRAIN HOLES
B : WITH DRAIN HOLES

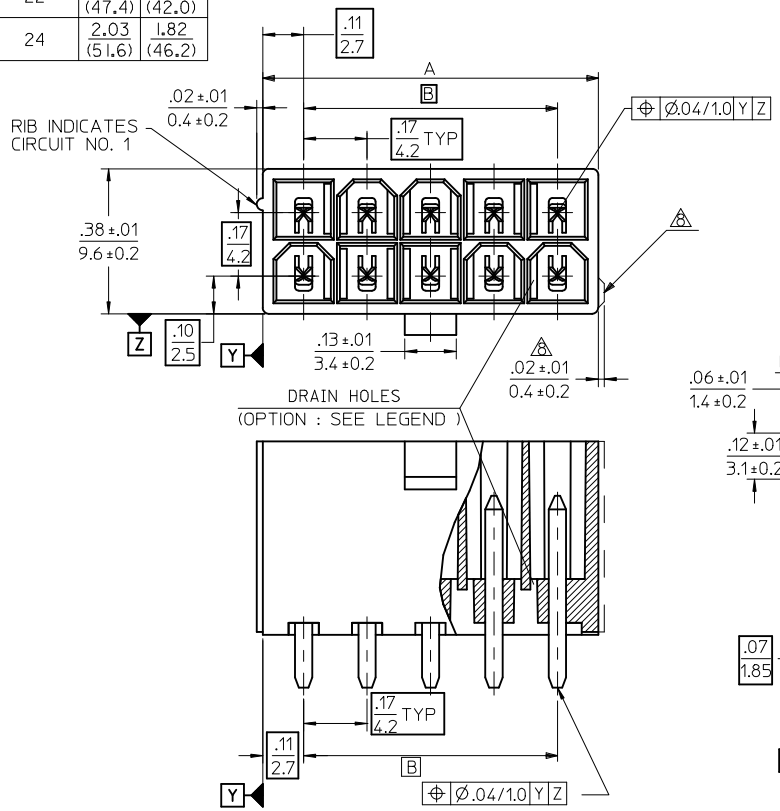
TERMINAL MATERIAL
SEE NOTE 1

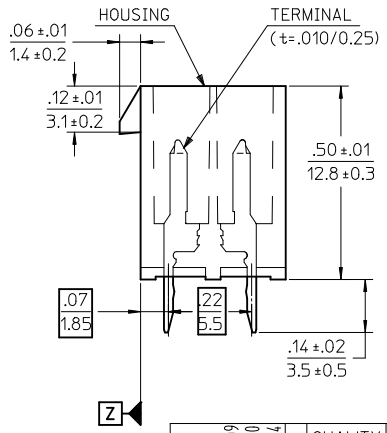
TERMINAL PLATING
SEE NOTE 2

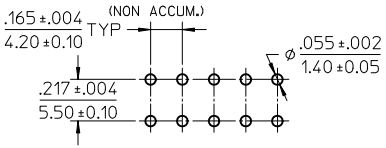
HOUSING MATERIAL
SEE NOTE 1

COLOR OR PACKAGING
BL : BLACK RE : RED GR : GRAY
BU : BLUE YE : YELLOW GRE : GREEN
TA : TRAY PACKAGING SEE NOTE 4

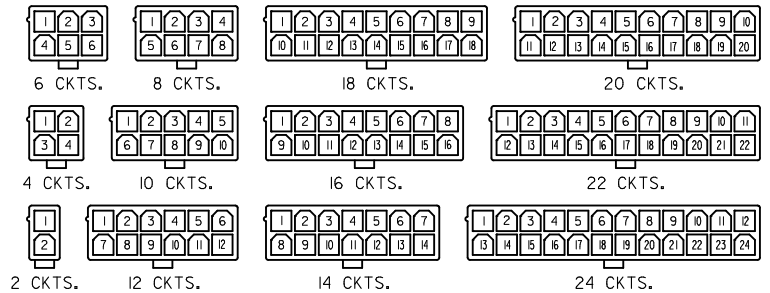
NOTES:
1. MATERIALS:
HOUSING:
'BLANK'=NYLON 6/6, UL94V-2, COLOR: NATURAL
"210" =NYLON 6/6, UL94V-0, COLOR: NATURAL
"400"=NYLON 6/6, UL94V-0, COLOR: BLACK
TERMINALS:
"BLANK" = BRASS
"PB" = PHOSPHER BRONZE
2. TERMINAL PLATING:
"BLANK" = BRIGHT TIN 000035/(0.00090) MIN.
OVER COPPER .000020/(0.00050) MIN. (BRASS)
TIN .000035/(0.00090) MIN. REFLOW TREATMENT
OR BRIGHT TIN .000035/(0.00090) MIN. (PHOSHOR BRONZE)
"S"=.000100/(0.00254) MIN. BRIGHT TIN OVER
.000050/(0.00127) MIN NICKEL
"GS2"=.000015/(0.00038) MIN. SELECT GOLD AND
.000100/(0.00254) MIN. SELECT MATTE TIN
OVER .000050/(0.00127) MIN. NICKEL OVERALL
"GS"=.000030/(0.00076) MIN. SELECT GOLD AND
.000100/(0.00254) MIN. SELECT MATTE TIN
OVER .000050/(0.00127) MIN. NICKEL OVERALL
3. PRODUCT SPECIFICATION: PS-5556-001
4. PACKAGING: "BLANK"= BULK PACKED, "TA"=TRAY PACK PER PK-5566-001
5. PART MATES WITH MINI-FIT JR. RECEPTACLE NO. 5557.
6. PART IS NOT DESIGNED FOR CURRENT SHARING.
7. PARTS ARE NOT DESIGNED TO BE MATED OR UN-MATED WHILE CIRCUITS ARE LIVE.
8. ANTI-SHINGLING RIB MAY OR MAY NOT APPEAR ON HOUSINGS.
9. PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.







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



CIRCUIT SIZE LAYOUT

CORRECTED PN
EC NO: UCP2010-2614 2010/04/09
DRWN: JJAGUILAR '94/04/20
CHKD: JBELL
APPR: FSMITH 2010/04/14
DESCRIPTION
REV
L3

QUALITY SYMBOLS
E =0
E =0
E =0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± .13	± .010
1 PLACE	± .25	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	H.HIRAMOTO	'89/04/03
CHECKED BY	M.FUKUSHIMA	'94/04/20
APPROVED BY	M.FUKUSHIMA	'94/04/20

TITLE: NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE-

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-5566-002
SHEET NO.: 1 OF 6

SIZE C

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

10	9	8	7	6	5	4	3	2	1	
39-29-5247	5566-24APB-210	39-30-9245	5566-24AGS2-210	39-29-6248	5566-24AGS-210	39-30-6242	5566-24AS-210	39-28-8240	5566-24A-210	24
-5227	-22APB-210	-9225	-22AGS2-210	-6228	-22AGS-210	-6222	-22AS-210	-8220	-22A-210	22
-5207	-20APB-210	-9205	-20AGS2-210	-6208	-20AGS-210	-6202	-20AS-210	-8200	-20A-210	20
-5187	-18APB-210	-9185	-18AGS2-210	-6188	-18AGS-210	-6182	-18AS-210	-8180	-18A-210	18
-5167	-16APB-210	-9165	-16AGS2-210	-6168	-16AGS-210	-6162	-16AS-210	-8160	-16A-210	16
-5147	-14APB-210	-9145	-14AGS2-210	-6148	-14AGS-210	-6142	-14AS-210	-8140	-14A-210	14
-5127	-12APB-210	-9125	-12AGS2-210	-6128	-12AGS-210	-6122	-12AS-210	-8120	-12A-210	12
-5107	-10APB-210	-9105	-10AGS2-210	-6108	-10AGS-210	-6102	-10AS-210	-8100	-10A-210	10
-5087	-08APB-210	-9085	-08AGS2-210	-6088	-08AGS-210	-6082	-08AS-210	-8080	-08A-210	8
-5067	-06APB-210	-9065	-06AGS2-210	-6068	-06AGS-210	-6062	-06AS-210	-8060	-06A-210	6
-5047	-04APB-210	-9045	-04AGS2-210	-6048	-04AGS-210	-6042	-04AS-210	-8040	-04A-210	4
39-29-5027	5566-02APB-210	39-30-9025	5566-02AGS2-210	39-29-6028	5566-02AGS-210	39-30-6022	5566-02AS-210	39-28-8020	5566-02A-210	2
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	CKT. SIZE
5566-NAPB-210		5566-NAGS2-210		5566-NAGS-210		5566-NAS-210		5566-NA-210		
39-29-5246	5566-24APB	39-30-9244	5566-24AGS2	39-29-0243	5566-24AGS	39-30-6241	5566-24AS	39-28-1243	5566-24A	24
-5226	-22APB	-9224	-22AGS2	-0223	-22AGS	-6221	-22AS	-1223	-22A	22
-5206	-20APB	-9204	-20AGS2	-0203	-20AGS	-6201	-20AS	-1203	-20A	20
-5186	-18APB	-9184	-18AGS2	-0183	-18AGS	-6181	-18AS	-1183	-18A	18
-5166	-16APB	-9164	-16AGS2	-0163	-16AGS	-6161	-16AS	-1163	-16A	16
-5146	-14APB	-9144	-14AGS2	-0143	-14AGS	-6141	-14AS	-1143	-14A	14
-5126	-12APB	-9124	-12AGS2	-0123	-12AGS	-6121	-12AS	-1123	-12A	12
-5106	-10APB	-9104	-10AGS2	-0103	-10AGS	-6101	-10AS	-1103	-10A	10
-5086	-08APB	-9084	-08AGS2	-0083	-08AGS	-6081	-08AS	-1083	-08A	8
-5066	-06APB	-9064	-06AGS2	-0063	-06AGS	-6061	-06AS	-1063	-06A	6
-5046	-04APB	-9044	-04AGS2	-0043	-04AGS	-6041	-04AS	-1043	-04A	4
39-29-5026	5566-02APB	39-30-9024	5566-02AGS2	39-29-0023	5566-02AGS	39-30-6021	5566-02AS	39-28-1023	5566-02A	2
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	CKT. SIZE
5566-NAPB		5566-NAGS2		5566-NAGS		5566-NAS		5566-NA		

PARTS WITH OUT DRAIN HOLES

REVISED
EC NO: UCP2010-1083 2010/02/05
DRWN:JJAGUILAR 2010/02/08
CH'KD:JBELL 2010/02/10
APPR:FSMITH
DESCRIPTION
REV
L2

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER	±---
10 OVER 30 UNDER	±---
30 OVER	±---
ANGULAR ±--- °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

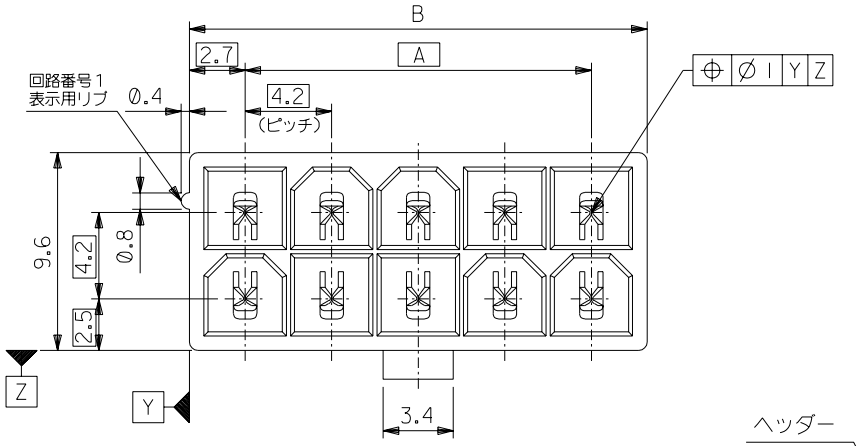
DIMENSION STYLE: IN/MM	SCALE: ---	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: H.HIRAMOTO DATE: '89/04/03			
CHECKED BY: M.FUKUSHIMA DATE: '94/04/20			
APPROVED BY: M.FUKUSHIMA DATE: '94/04/20			
MATERIAL NO.: SEE TABLE	DOCUMENT NO.: SD-5566-002	SHEET NO.: 2 OF 6	

TITLE: NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE-

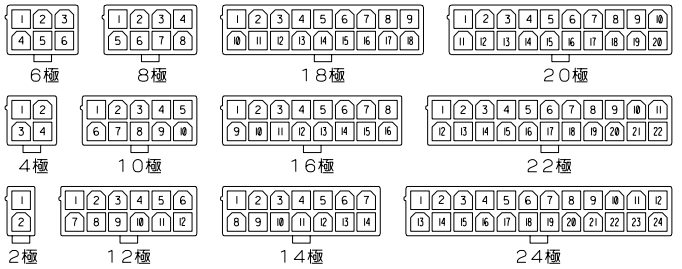
MOLEX INCORPORATED

SIZE A3

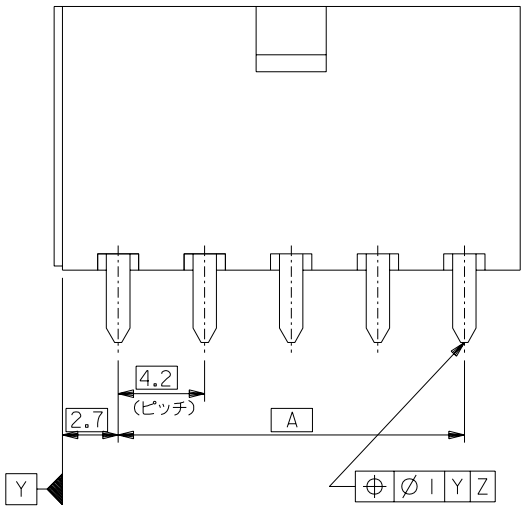
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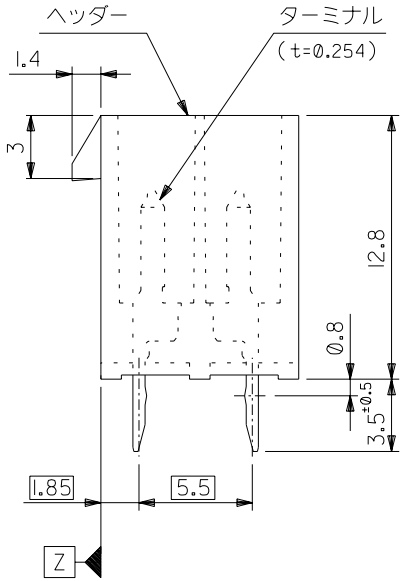


51.6	46.2	24
47.4	42	22
43.2	37.8	20
39	33.6	18
34.8	29.4	16
30.6	25.2	14
26.4	21	12
22.2	16.8	10
18	12.6	8
13.8	8.4	6
9.6	4.2	4
5.4	—	2
寸法 B	寸法 A	極数



極数別レイアウト図
(SCALE 1 : 1)



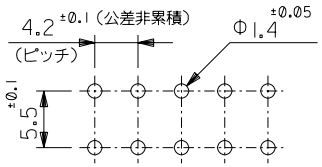


注 記

1. 嵌合相手 : 5557シリーズ
2. 使用符号の説明

5566 - N A * * - *

- ベースナンバー
- 極数
- アッセンブリー
- ターミナル材料
  - "BLANK" : 黄銅
  - PB : リン青銅
- ターミナルのメッキ
  - "BLANK" : 錫メッキ 0.9μm MIN.
  - GS : ニッケル 1.27μm MIN. 全面下地
    コンタクト部 金 0.76μm MIN.
    半田付け部 錫 2.54μm MIN.
- ヘッダー材料
  - "BLANK" : ナイロン 66, UL 94V-2
  - 210 : ナイロン 66, UL 94V-0
  - 400 : ナイロン 66, UL 94V-0, 黒



基板穴推奨寸法
(SCALE 2 : 1)

角度 ANGLE	±3°	F	変更 (J2004-4431)	M.N K.T	'04/5/26	材料 MATERIAL 注記 2 参照	MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社
30 以上 OVER	±0.4 ~~±0.3~~	E	変更 (J00638)	H.H	'90/6/8	仕上げ FINISH 注記 2 参照	EDP. NO. SHEET 2 OF 2 参照
10 以上 30 未満 OVER UNDER	±0.3 ~~±0.25~~	D	変更&再作図 (J00510)	H.H Y.Y	'90/5/7	適用電線範囲 WIRE RANGE	ENG. NO. SD-5566-NA**-* / SHEET 1 OF 2 / REV F
10 未満 UNDER	±0.2	記号 LTR	変更内容 REVISION RECORD	DR. CHK.	日付 DATE	被覆外径 INS. RANGE	
一般公差 GENERAL TOLERANCES		REVISE ONLY ON CAD SYSTEM				DRAWN BY '89/5/7 H.HIRAMOTO / CHK'D BY '91/10/29 M.FUKUSHIMA / APP'D BY '91/10/29 M.ENOMOTO / 尺度 SCALE 4 - 1	TITLE 名称 NEW MINI FIT CONNECTOR HEADER ASS'Y -LEAD FREE-

5566-NA**-*
MODEL NO.

5566.S21 A

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本図面は日本モレックス（株）の所有する情報を含むもので当社の許可なく複製を禁止する。

5566-NA-400		極数
EDP NO.	ENG. NO	
39-35-0028	5566-02A-400	2
-0048	-04A-400	4
-0068	-06A-400	6
-0088	-08A-400	8
-0108	-10A-400	10
-0128	-12A-400	12
-0148	-14A-400	14
-0168	-16A-400	16
-0188	-18A-400	18
-0208	-20A-400	20
-0228	-22A-400	22
39-35-0248	5566-24A-400	24

5566-NA-210		極数
EDP NO.	ENG. NO	
39-28-8020	5566-02A-210	2
-8040	-04A-210	4
-8060	-06A-210	6
-8080	-08A-210	8
-8100	-10A-210	10
-8120	-12A-210	12
-8140	-14A-210	14
-8160	-16A-210	16
-8180	-18A-210	18
-8200	-20A-210	20
-8220	-22A-210	22
39-28-8240	5566-24A-210	24

5566-NAGS-210		極数
EDP NO.	ENG. NO	
39-29-0023	5566-02AGS	2
-0043	-04AGS	4
-0063	-06AGS	6
-0083	-08AGS	8
-0103	-10AGS	10
-0123	-12AGS	12
-0143	-14AGS	14
-0163	-16AGS	16
-0183	-18AGS	18
-0203	-20AGS	20
-0223	-22AGS	22
39-29-0243	5566-24AGS	24

5566-NAGS-210		極数
EDP NO.	ENG. NO	
39-29-6028	5566-02AGS-210	2
-6048	-04AGS-210	4
-6068	-06AGS-210	6
-6088	-08AGS-210	8
-6108	-10AGS-210	10
-6128	-12AGS-210	12
-6148	-14AGS-210	14
-6168	-16AGS-210	16
-6188	-18AGS-210	18
-6208	-20AGS-210	20
-6228	-22AGS-210	22
39-29-6248	5566-24AGS-210	24

5566-NAPB		極数
EDP NO.	ENG. NO	
39-29-5026	5566-02APB	2
-5046	-04APB	4
-5066	-06APB	6
-5086	-08APB	8
-5106	-10APB	10
-5126	-12APB	12
-5146	-14APB	14
-5166	-16APB	16
-5186	-18APB	18
-5206	-20APB	20
-5226	-22APB	22
39-29-5246	5566-24APB	24

5566-NAPB-210		極数
EDP NO.	ENG. NO	
39-29-5027	5566-02APB-210	2
-5047	-04APB-210	4
-5067	-06APB-210	6
-5087	-08APB-210	8
-5107	-10APB-210	10
-5127	-12APB-210	12
-5147	-14APB-210	14
-5167	-16APB-210	16
-5187	-18APB-210	18
-5207	-20APB-210	20
-5227	-22APB-210	22
39-29-5247	5566-24APB-210	24

EDP NO. 表 参照

ENG. NO SD-5566-NA**-*

:MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

5566-NA**-*
MODEL NO.

角度 ANGLE	±3°
30 以上 OVER	±0.3
10 以上 OVER 30 未満 UNDER	±0.25
10 未満 UNDER	±0.2
一般公差 GENERAL TOLERANCES	

LTR	変更内容 REVISION RECORD	DR.	CHK.	日付 DATE
F	SEE SHEET 1 OF 2	M.N	K.T	'04/5/26
E	SEE SHEET 1 OF 2	H.H		'90/6/8
D	SEE SHEET 1 OF 2	H.H	Y.Y	'90/5/7

REVISE ONLY ON CAD SYSTEM

材料 MATERIAL 注記 2 参照

仕上げ FINISH 注記 2 参照

適用電線範囲 WIRE RANGE

被覆外径 INS. RANGE

DRAWN BY '90/5/7 H.HIRAMOTO

CHK'D BY '91/10/29 M.FUKUSHIMA

APP'D BY '91/10/29 M.ENOMOTO

尺度 SCALE

MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社

EDP. NO. 表 参照

ENG. NO. SD-5566-NA**-* SHEET 2 OF 2 REV F

TITLE 名称
NEW MINI FIT CONNECTOR
HEADER ASS'Y -LEAD FREE-

5566.S22 A

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