

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** [0039288060](#)  
**Status:** **Active**  
**Overview:** [minifit\\_jr](#)  
**Description:** 4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, without Snap-in Plastic Peg PCB Lock, 6 Circuits, PA Polyamide Nylon 6/6 94V-0, Tin (Sn) Plating, without Drain Holes

**Documents:**  
[3D Model](#)  
[Drawing \(PDF\)](#)  
[RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA	LR19980
TUV	R72081037
UL	E29179

**General**

Product Family	PCB Headers
Series	<a href="#">5566</a>
Application	Wire-to-Board
Comments	Current = 13A max. per circuit when header is mated to a receptacle loaded with <a href="#">45750</a> Mini-Fit Plus HCS™ Crimp Terminal Crimped to to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.. Glow Wire Equivalent Part Number <a href="#">50361697</a> . Square Pin, Solder Type
Overview	<a href="#">minifit_jr</a>
Product Name	Mini-Fit Jr.™

**Physical**

Breakaway	No
Circuits (Loaded)	6
Circuits (maximum)	6
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

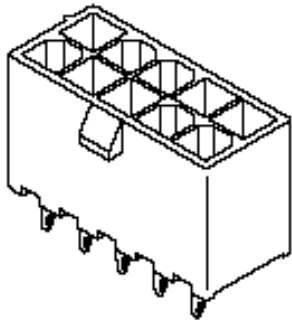


image - Reference only

Series

**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](mailto: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	5566-06A-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](http://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

BASE NUMBER 5566 - N \* \* \* \* \*  
 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\* = PHOSPHOR 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. (PHOSPHOR 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

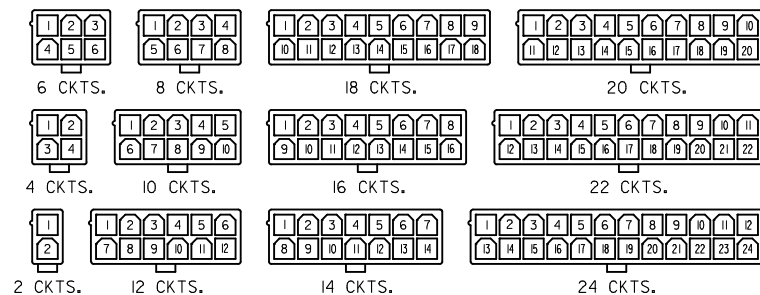
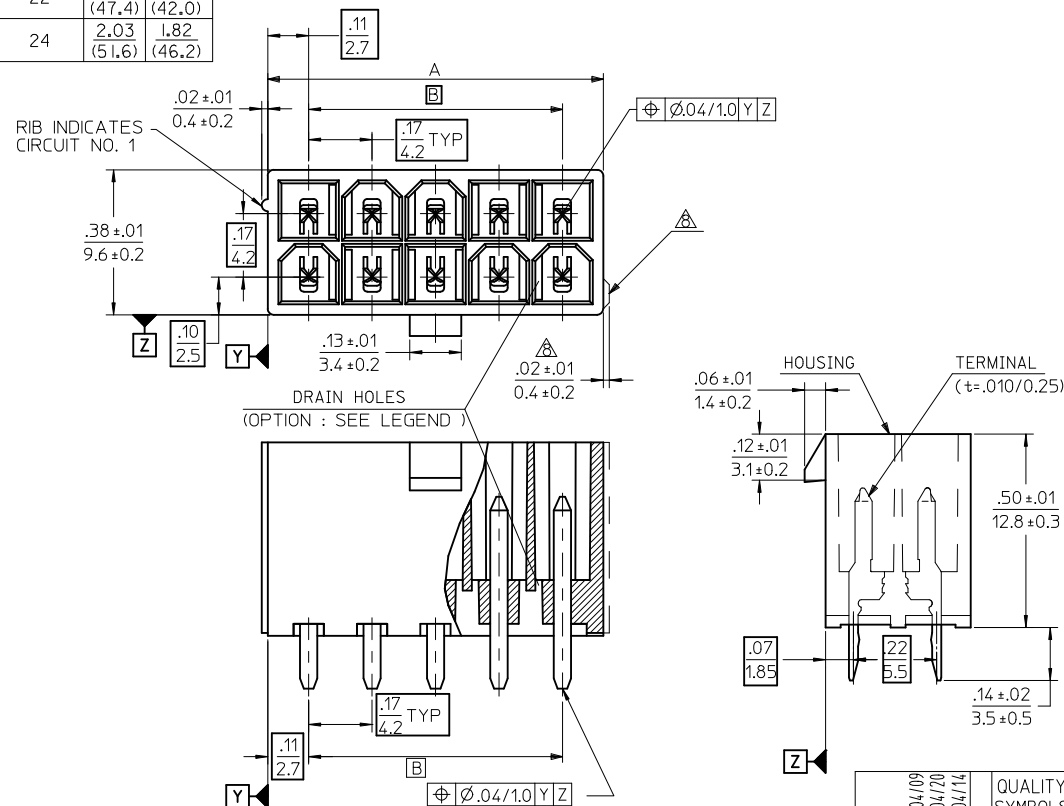
5. PART MATES WITH MINI-FIT JR. RECEPTACLE NO. 5557.

6. PART IS NOT DESIGNED FOR CURRENT SHARING.

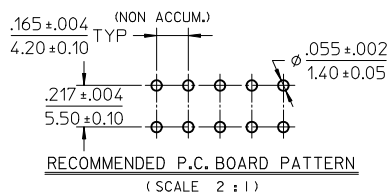
7. PARTS ARE NOT DESIGNED TO BE MATED OR UN-MATED WHILE CIRCUITS ARE LIVE.


8. ANTI-SHINGLING RIB MAY OR MAY NOT APPEAR ON HOUSINGS.

9. PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

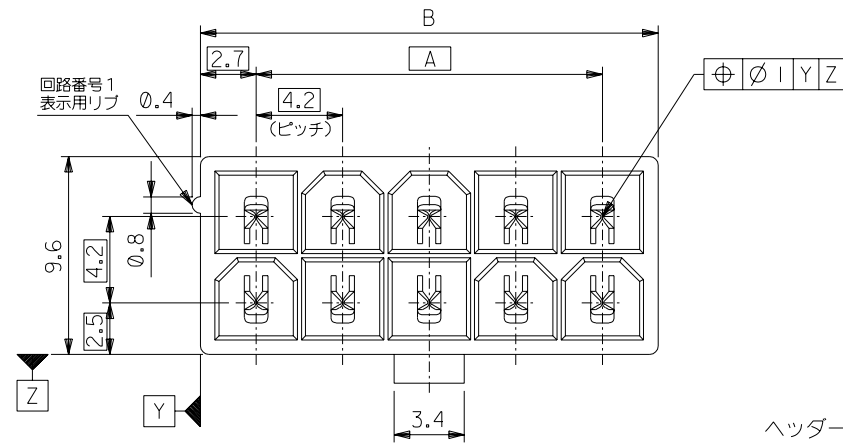


## CIRCUIT SIZE LAYOUT

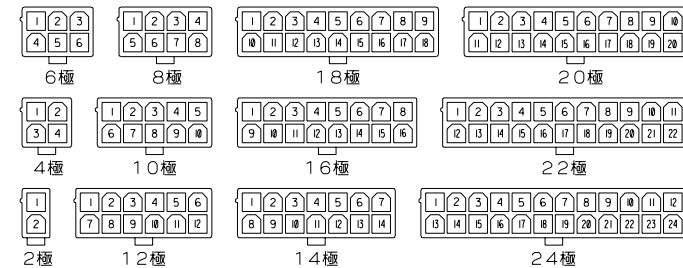


CORRECTED PN EC NO: UCP2010-2614 DRWN: JAGUILAR CHKD: J.BELL APPR: F.S.MITH 2010/04/09 '94/04/20 2010/04/14	DESCRIPTION	QUALITY SYMBOLS <div>▽=0</div> <div>▽=0</div> <div>▽=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
					mm	INCH	DRAWN BY H.HIRAMOTO	DATE '89/04/03	TITLE NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE- MOLEX INCORPORATED			
			4 PLACES ± ---		± ---	CHECKED BY M.FUKUSHIMA		DATE '94/04/20				
			3 PLACES ± ---		± .005	APPROVED BY M.FUKUSHIMA		DATE '94/04/20				
			2 PLACES ± .13		± .010							
			1 PLACE ± .25		± ---							
			ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.			SHEET NO.	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-5566-002			1 OF 6	
						SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

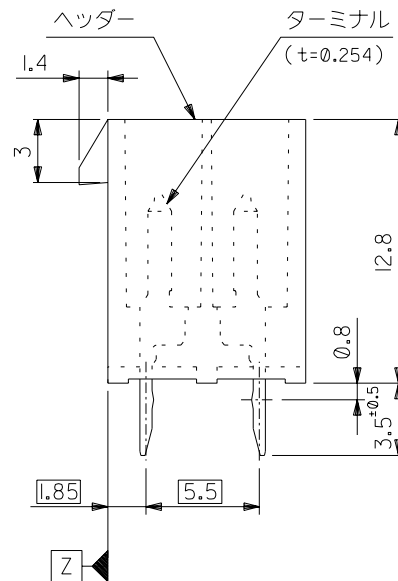




51.6	46.2	24
47.4	42	22
43.2	37.8	20
39	33.6	18
34.8	29.4	16
30.6	25.2	14
26.4	21	12
22.2	16.8	10
18	12.6	8
13.8	8.4	6
9.6	4.2	4
5.4	—	2
寸法 B	寸法 A	極数



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

ベースナンバー 5566 - N A \* \* - \*

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.

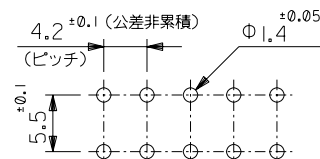
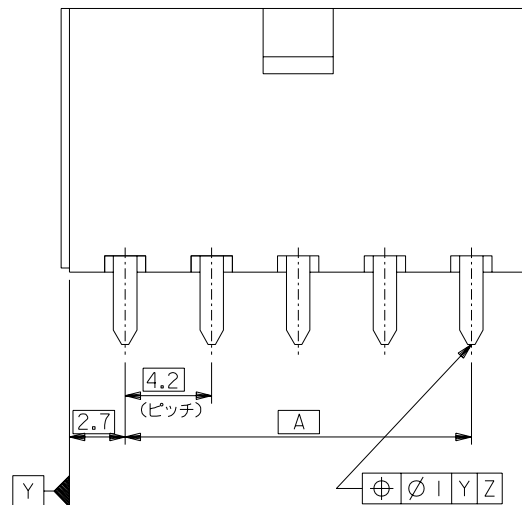
半田付け部 錫 2.54μm MIN.

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)

				材料 MATERIAL		molex MOLEX-JAPAN CO.,LTD. 日本モレックス株式会社	
				注記 2 参照		EDP. NO. SHEET 2 OF 2 参照	
				仕上げ FINISH 注記 2 参照		ENG. NO. SHEET 1 OF 2 REV. F	
				適用電線範囲 WIRE RANGE		SD-5566-NA***	
				被覆外径 INS. RANGE		DRAWN BY '89/5/7 H.HIRAMOTO CHK'D BY '91/10/29 M.FUKUSHIMA	
				APP'D BY '91/10/29 M.ENOMOTO		TITLE 名称 NEW MINI FIT CONNECTOR HEADER ASS'Y -LEAD FREE-	
				尺 度 SCALE 4 - 1			
				一般公差 GENERAL TOLERANCES		REVISE ONLY ON CAD SYSTEM	

		8		7		6		5		4		3		2		1	
ENC. NO SD-5566-NA**-*	EDP NO. 表 参照													39-35-0248	5566-24A-400	24	F
														▲ -0228	▲ -22A-400	22	
														-0208	-20A-400	20	
														-0188	-18A-400	18	
														-0168	-16A-400	16	
														-0148	-14A-400	14	
														-0128	-12A-400	12	
														-0108	-10A-400	10	
														-0088	-08A-400	8	
														-0068	-06A-400	6	
												▼ -0048	▼ -04A-400	4			
												39-35-0028	5566-02A-400	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-400					
												39-29-5247	5566-24APB-210	24	E		
												▲ -5227	▲ -22APB-210	22			
												-5207	-20APB-210	20			
												-5187	-18APB-210	18			
												-5167	-16APB-210	16			
												-5147	-14APB-210	14			
												-5127	-12APB-210	12			
												-5107	-10APB-210	10			
												-5087	-08APB-210	8			
												-5067	-06APB-210	6			
												▼ -5047	▼ -04APB-210	4			
												39-29-5027	5566-02APB-210	2			
												EDP NO.	ENG. NO	極数			
												5566-NAPB-210					
												39-29-5246	5566-24APB	24	D		
												▲ -5226	▲ -22APB	22			
												-5206	-20APB	20			
												-5186	-18APB	18			
												-5166	-16APB	16			
												-5146	-14APB	14			
												-5126	-12APB	12			
												-5106	-10APB	10			
												-5086	-08APB	8			
												-5066	-06APB	6			
												▼ -5046	▼ -04APB	4			
												39-29-5026	5566-02APB	2			
												EDP NO.	ENG. NO	極数			
												5566-NAGS-210					
												39-29-5243	5566-24AGS	24	C		
												▲ -5223	▲ -22AGS	22			
												-5203	-20AGS	20			
												-5183	-18AGS	18			
												-5163	-16AGS	16			
												-5143	-14AGS	14			
												-5123	-12AGS	12			
												-5103	-10AGS	10			
												-5083	-08AGS	8			
												-5063	-06AGS	6			
												▼ -5043	▼ -04AGS	4			
												39-29-5023	5566-02AGS	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-8240	5566-24A-210	24	B		
												▲ -8220	▲ -22A-210	22			
												-8200	-20A-210	20			
												-8180	-18A-210	18			
												-8160	-16A-210	16			
												-8140	-14A-210	14			
												-8120	-12A-210	12			
												-8100	-10A-210	10			
												-8080	-08A-210	8			
												-8060	-06A-210	6			
												▼ -8040	▼ -04A-210	4			
												39-28-8020	5566-02A-210	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-400					
												39-28-1243	5566-24A	24	A		
												▲ -1223	▲ -22A	22			
												-1203	-20A	20			
												-1183	-18A	18			
												-1163	-16A	16			
												-1143	-14A	14			
												-1123	-12A	12			
												-1103	-10A	10			
												-1083	-08A	8			
												-1063	-06A	6			
												▼ -1043	▼ -04A	4			
												39-28-1023	5566-02A	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-8240	5566-24A-210	24	MXJ-8		
												▲ -8220	▲ -22A-210	22			
												-8200	-20A-210	20			
												-8180	-18A-210	18			
												-8160	-16A-210	16			
												-8140	-14A-210	14			
												-8120	-12A-210	12			
												-8100	-10A-210	10			
												-8080	-08A-210	8			
												-8060	-06A-210	6			
												▼ -8040	▼ -04A-210	4			
												39-28-8020	5566-02A-210	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-1243	5566-24A	24	MXJ-8		
												▲ -1223	▲ -22A	22			
												-1203	-20A	20			
												-1183	-18A	18			
												-1163	-16A	16			
												-1143	-14A	14			
												-1123	-12A	12			
												-1103	-10A	10			
												-1083	-08A	8			
												-1063	-06A	6			
												▼ -1043	▼ -04A	4			
												39-28-1023	5566-02A	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-8240	5566-24A-210	24	MXJ-8		
												▲ -8220	▲ -22A-210	22			
												-8200	-20A-210	20			
												-8180	-18A-210	18			
												-8160	-16A-210	16			
												-8140	-14A-210	14			
												-8120	-12A-210	12			
												-8100	-10A-210	10			
												-8080	-08A-210	8			
												-8060	-06A-210	6			
												▼ -8040	▼ -04A-210	4			
												39-28-8020	5566-02A-210	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-1243	5566-24A	24	MXJ-8		
												▲ -1223	▲ -22A	22			
												-1203	-20A	20			
												-1183	-18A	18			
												-1163	-16A	16			
												-1143	-14A	14			
												-1123	-12A	12			
												-1103	-10A	10			
												-1083	-08A	8			
												-1063	-06A	6			
												▼ -1043	▼ -04A	4			
												39-28-1023	5566-02A	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-8240	5566-24A-210	24	MXJ-8		
												▲ -8220	▲ -22A-210	22			
												-8200	-20A-210	20			
												-8180	-18A-210	18			
												-8160	-16A-210	16			
												-8140	-14A-210	14			
												-8120	-12A-210	12			
												-8100	-10A-210	10			
												-8080	-08A-210	8			
												-8060	-06A-210	6			
												▼ -8040	▼ -04A-210	4			
												39-28-8020	5566-02A-210	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-1243	5566-24A	24	MXJ-8		
												▲ -1223	▲ -22A	22			
												-1203	-20A	20			
												-1183	-18A	18			
												-1163	-16A	16			
												-1143	-14A	14			
												-1123	-12A	12			
												-1103	-10A	10			
												-1083	-08A	8			
												-1063	-06A	6			
												▼ -1043	▼ -04A	4			
												39-28-1023	5566-02A	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-8240	5566-24A-210	24	MXJ-8		
												▲ -8220	▲ -22A-210	22			
												-8200	-20A-210	20			
												-8180	-18A-210	18			
												-8160	-16A-210	16			
												-8140	-14A-210	14			
												-8120	-12A-210	12			
												-8100	-10A-210	10			
												-8080	-08A-210	8			
												-8060	-06A-210	6			
												▼ -8040	▼ -04A-210	4			
												39-28-8020	5566-02A-210	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-1243	5566-24A	24	MXJ-8		
												▲ -1223	▲ -22A	22			
												-1203	-20A	20			
												-1183	-18A	18			
												-1163	-16A	16			
												-1143	-14A	14			
												-1123	-12A	12			
												-1103	-10A	10			
												-1083	-08A	8			
												-1063	-06A	6			
												▼ -1043	▼ -04A	4			
												39-28-1023	5566-02A	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-8240	5566-24A-210	24	MXJ-8		
												▲ -8220	▲ -22A-210	22			
												-8200	-20A-210	20			
												-8180	-18A-210	18			
												-8160	-16A-210	16			
												-8140	-14A-210	14			
												-8120	-12A-210	12			
												-8100	-10A-210	10			
												-8080	-08A-210	8			
												-8060	-06A-210	6			
												▼ -8040	▼ -04A-210	4			
												39-28-8020	5566-02A-210	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-1243	5566-24A	24	MXJ-8		
												▲ -1223	▲ -22A	22			
												-1203	-20A	20			
												-1183	-18A	18			
												-1163	-16A	16			
												-1143	-14A	14			
												-1123	-12A	12			
												-1103	-10A	10			
												-1083	-08A	8			
												-1063	-06A	6			
												▼ -1043	▼ -04A	4			
												39-28-1023	5566-02A	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-8240	5566-24A-210	24	MXJ-8		
												▲ -8220	▲ -22A-210	22			
												-8200	-20A-210	20			
												-8180	-18A-210	18			
												-8160	-16A-210	16			
												-8140	-14A-210	14			
												-8120	-12A-210	12			
												-8100	-10A-210	10			
												-8080	-08A-210	8			
												-8060	-06A-210	6			
												▼ -8040	▼ -04A-210	4			
												39-28-8020	5566-02A-210	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-1243	5566-24A	24	MXJ-8		
												▲ -1223	▲ -22A	22			
												-1203	-20A	20			
												-1183	-18A	18			
												-1163	-16A	16			
												-1143	-14A	14			
												-1123	-12A	12			
												-1103	-10A	10			
												-1083	-08A	8			
												-1063	-06A	6			
												▼ -1043	▼ -04A	4			
												39-28-1023	5566-02A	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-8240	5566-24A-210	24	MXJ-8		
												▲ -8220	▲ -22A-210	22			
												-8200	-20A-210	20			
												-8180	-18A-210	18			
												-8160	-16A-210	16			
												-8140	-14A-210	14			
												-8120	-12A-210	12			
												-8100	-10A-210	10			
												-8080	-08A-210	8			
												-8060	-06A-210	6			
												▼ -8040	▼ -04A-210	4			
												39-28-8020	5566-02A-210	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-1243	5566-24A	24	MXJ-8		
												▲ -1223	▲ -22A	22			
												-1203	-20A	20			
												-1183	-18A	18			
												-1163	-16A	16			
												-1143	-14A	14			
												-1123	-12A	12			
												-1103	-10A	10			
												-1083	-08A	8			
												-1063	-06A	6			
												▼ -1043	▼ -04A	4			
												39-28-1023	5566-02A	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-8240	5566-24A-210	24	MXJ-8		
												▲ -8220	▲ -22A-210	22			
												-8200	-20A-210	20			
												-8180	-18A-210	18			
												-8160	-16A-210	16			
												-8140	-14A-210	14			
												-8120	-12A-210	12			
												-8100	-10A-210	10			
												-8080	-08A-210	8			
												-8060	-06A-210	6			
												▼ -8040	▼ -04A-210	4			
												39-28-8020	5566-02A-210	2			
												EDP NO.	ENG. NO	極数			
												5566-NA-210					
												39-28-1243	5566-24A	24	MXJ-8		
												▲ -1223	▲ -22A	22			
												-1203	-20A	20			
												-1183	-18A	18			
												-1163	-16A	16			
												-1143	-14A	14			
												-1123	-12A	12			
												-1103	-10A	10			
												-1083	-08A	8			
												-1063	-06A	6			