

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0039296088

Status:

Active

Overview:

minifit\_jr

Description:

4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, without Snap-in Plastic Peg PCB Lock, 8 Circuits, PA Polyamide Nylon 6/6 94V-0, 0.76µm (30µ") Gold (Au) Selective Plating, without Drain Holes

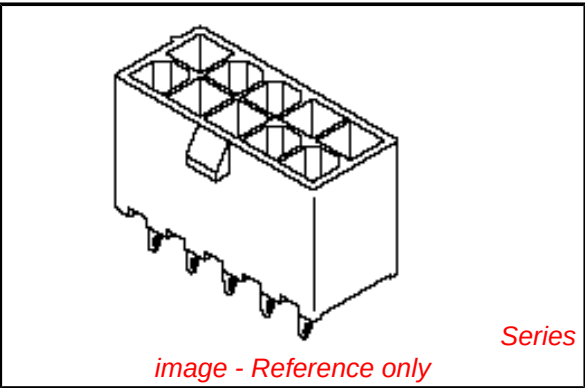
Documents:

3D Model

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

|                                |                                                                                                                                                                                                                                                                                            |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agency Certification           |                                                                                                                                                                                                                                                                                            |
| CSA                            | LR19980                                                                                                                                                                                                                                                                                    |
| TUV                            | R72081037                                                                                                                                                                                                                                                                                  |
| UL                             | E29179                                                                                                                                                                                                                                                                                     |
| General                        |                                                                                                                                                                                                                                                                                            |
| Product Family                 | PCB Headers                                                                                                                                                                                                                                                                                |
| Series                         | 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 Crimped to to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.. High Temperature, Square Pin, Solder Type |
| Overview                       | minifit_jr                                                                                                                                                                                                                                                                                 |
| Product Name                   | Mini-Fit Jr.™                                                                                                                                                                                                                                                                              |
| Physical                       |                                                                                                                                                                                                                                                                                            |
| Breakaway                      | No                                                                                                                                                                                                                                                                                         |
| Circuits (Loaded)              | 8                                                                                                                                                                                                                                                                                          |
| Circuits (maximum)             | 8                                                                                                                                                                                                                                                                                          |
| 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      | Gold                                                                                                                                                                                                                                                                                       |
| 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](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                     |
| 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                |
| <b>Electrical</b>                  |                             |
| Current - Maximum per Contact      | 13A                         |
| Voltage - Maximum                  | 600V                        |
| <b>Material Info</b>               |                             |
| Old Part Number                    | A556608AGS210               |
| <b>Reference - Drawing Numbers</b> |                             |
| Packaging Specification            | PK-5566                     |
| Sales Drawing                      | SD-5566-002, SD-5566-NA**-* |

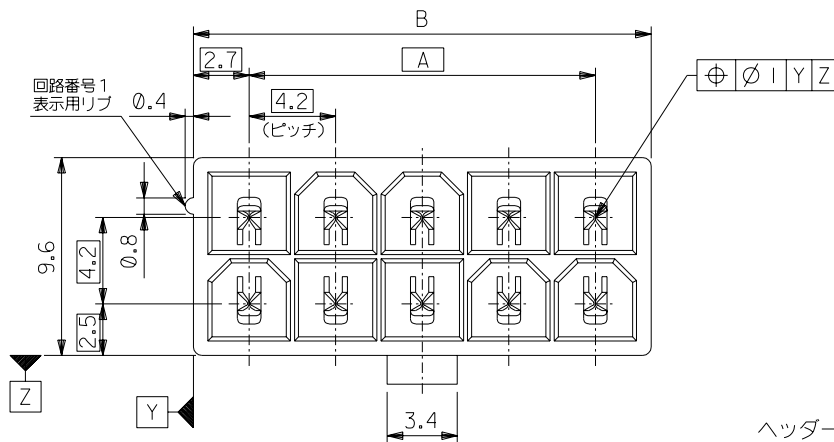
This document was generated on 05/21/2010

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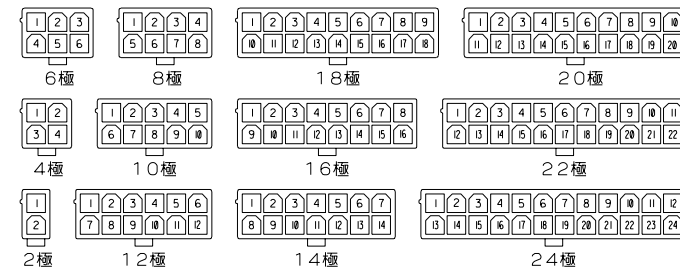
| CIRCUIT SIZE | DIM. "A"              | DIM. "B"              |
|--------------|-----------------------|-----------------------|
| 2            | $\frac{.21}{(5.4)}$   | —                     |
| 4            | $\frac{.38}{(9.6)}$   | $\frac{.17}{(4.2)}$   |
| 6            | $\frac{.54}{(13.8)}$  |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

|    |    |    |   |   |   |   |   |   |   |   |   |
|----|----|----|---|---|---|---|---|---|---|---|---|
| 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|----|----|----|---|---|---|---|---|---|---|---|---|

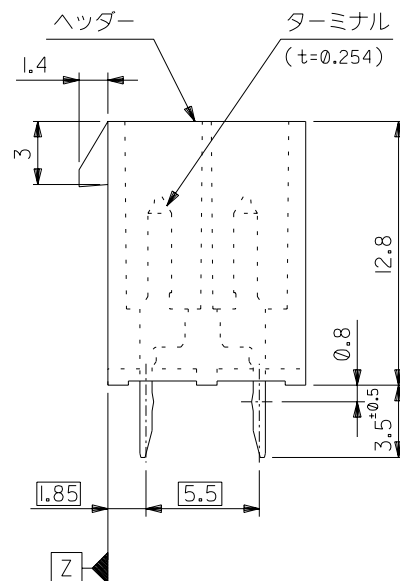
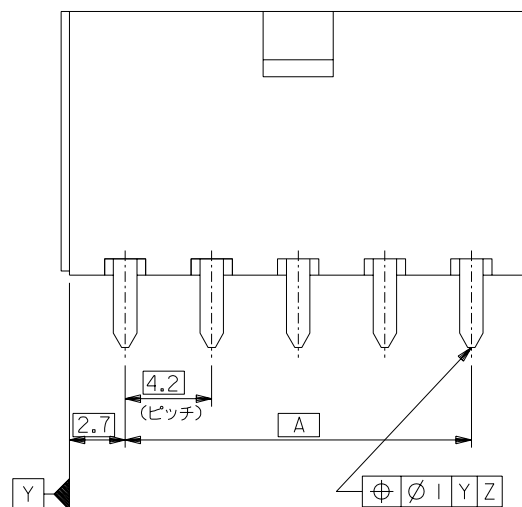




|      |      |    |
|------|------|----|
| 51.6 | 46.2 | 24 |
| 47.4 | 42   | 22 |
| 43.2 | 37.8 | 20 |
| 39   | 33.6 | 18 |
| 34.8 | 29.4 | 16 |
| 30.6 | 25.2 | 14 |
| 26.4 | 21   | 12 |
| 22.2 | 16.8 | 10 |
| 18   | 12.6 | 8  |
| 13.8 | 8.4  | 6  |
| 9.6  | 4.2  | 4  |
| 5.4  | —    | 2  |
| 寸法 B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



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

2. 使用符号の説明

|         |       |   |   |   |   |   |   |   |
|---------|-------|---|---|---|---|---|---|---|
|         | 5566  | - | N | A | * | * | - | + |
| ベースナンバー | _____ |   | ┆ | ┆ | ┆ | ┆ |   |   |

|    |  |  |  |
|----|--|--|--|
| 極數 |  |  |  |
|----|--|--|--|

アッセンブリー \_\_\_\_\_

ターミナル材料 \_\_\_\_\_

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 0.9 $\mu$ m MIN.

GS : ニッケル 1.27 $\mu$ m MIN. 全面下地

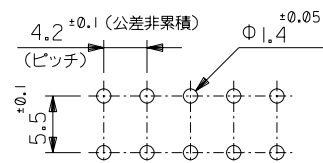
コクタクト部 金 0.76μm MIN.  
半田付け部 銀 3.54μm MIN.

△ 材料

"BLANK": サイロン 66 III 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<br>MATERIAL                                                   |  |  MOLEX-JAPAN CO.,LTD.<br>日本モレックス株式会社 |  |
|                              |               |                           |                         |             |            | 注記 2 参照                                                          |  |                                                                                                                           |  |
|                              |               |                           |                         |             |            | 仕上げ<br>FINISH                                                    |  | 注記 2 参照                                                                                                                   |  |
|                              |               |                           |                         |             |            | 適用電線範囲<br>WIRE RANGE                                             |  | EDP. NO.<br>SHEET 2 OF 2 参照                                                                                               |  |
| 角度 ANGLE                     | ±3°           | F                         | 変更 (J2004-4431)         | M.N.<br>K.T | 04/5/26    | — — — —                                                          |  | ENG. NO. SHEET 1 OF 2 REV<br>SD-5566-NA***- F                                                                             |  |
| 30 以上<br>OVER                | ±0.4<br>±0.3  | E                         | 変更 (J00638)             | H.H         | 00/6/8     | — — — —                                                          |  |                                                                                                                           |  |
| 10 以上<br>OVER 30 未満<br>UNDER | ±0.3<br>±0.25 | D                         | 変更&再作図 (J00510)         | H.H<br>Y.Y  | 00/5/7     | 被覆外径<br>INS. RANGE                                               |  |                                                                                                                           |  |
| 10 未満<br>UNDER               | ±0.2          | 記号<br>LTR                 | 変更内容<br>REVISION RECORD | DR.<br>CHK. | 日付<br>DATE | DRAWN BY '09/5/7<br>H.HIRAMOTO<br>APP'D BY '91/0/29<br>M.ENOMOTO |  | TITLE 名称<br>NEW MINI FIT CONNECTOR<br>HEADER ASS'Y -LEAD FREE-                                                            |  |
| 一般公差<br>GENERAL TOLERANCES   |               | REVISE ONLY ON CAD SYSTEM |                         |             |            | 尺度<br>SCALE 4 - 1                                                |  |                                                                                                                           |  |

|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|---------------------------|-----------------|----------------------------|----------------|---------------------------|-------------------------|-------------|--------------|---------------------------------|--------------|----------------------------------------------------------------|---|-----------|--|--|--|
|                           |                 | 8                          | 7              | 6                         | 5                       | 4           | 3            | 2                               | 1            |                                                                |   |           |  |  |  |
| ENC. NO<br>SD-5566-NA**-* | EDP NO.<br>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                               | E            |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         | 39-35-0028  | 5566-02A-400 | 2                               |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         | EDP NO.     | ENG. NO      | 極数                              |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         | 5566-NA-400 |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 | 39-29-5247                 | 5566-24APB-210 | 39-29-6248                | 5566-24AGS-210          | 39-28-8240  | 5566-24A-210 | 24                              | D            |                                                                |   |           |  |  |  |
|                           |                 | ▲ -5227                    | ▲ -22APB-210   | ▲ -6228                   | ▲ -22AGS-210            | ▲ -8220     | ▲ -22A-210   | 22                              |              |                                                                |   |           |  |  |  |
|                           |                 | -5207                      | -20APB-210     | -6208                     | -20AGS-210              | -8200       | -20A-210     | 20                              |              |                                                                |   |           |  |  |  |
|                           |                 | -5187                      | -18APB-210     | -6188                     | -18AGS-210              | -8180       | -18A-210     | 18                              |              |                                                                |   |           |  |  |  |
|                           |                 | -5167                      | -16APB-210     | -6168                     | -16AGS-210              | -8160       | -16A-210     | 16                              |              |                                                                |   |           |  |  |  |
|                           |                 | -5147                      | -14APB-210     | -6148                     | -14AGS-210              | -8140       | -14A-210     | 14                              |              |                                                                |   |           |  |  |  |
|                           |                 | -5127                      | -12APB-210     | -6128                     | -12AGS-210              | -8120       | -12A-210     | 12                              |              |                                                                |   |           |  |  |  |
|                           |                 | -5107                      | -10APB-210     | -6108                     | -10AGS-210              | -8100       | -10A-210     | 10                              |              |                                                                |   |           |  |  |  |
|                           |                 | -5087                      | -08APB-210     | -6088                     | -08AGS-210              | -8080       | -08A-210     | 8                               |              |                                                                |   |           |  |  |  |
|                           |                 | ▼ -5067                    | ▼ -06APB-210   | ▼ -6068                   | ▼ -06AGS-210            | ▼ -8060     | ▼ -06A-210   | 6                               |              |                                                                |   |           |  |  |  |
|                           |                 | ▼ -5047                    | ▼ -04APB-210   | ▼ -6048                   | ▼ -04AGS-210            | ▼ -8040     | ▼ -04A-210   | 4                               | C            |                                                                |   |           |  |  |  |
|                           |                 | 39-29-5027                 | 5566-02APB-210 | 39-29-6028                | 5566-02AGS-210          | 39-28-8020  | 5566-02A-210 | 2                               |              |                                                                |   |           |  |  |  |
|                           |                 | EDP NO.                    | ENG. NO        | EDP NO.                   | ENG. NO                 | EDP NO.     | ENG. NO      | 極数                              |              |                                                                |   |           |  |  |  |
|                           |                 | 5566-NAPB-210              |                | 5566-NAGS-210             |                         | 5566-NA-210 |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 | 39-29-5246                 | 5566-24APB     | 39-29-0243                | 5566-24AGS              | 39-28-1243  | 5566-24A     | 24                              |              |                                                                |   |           |  |  |  |
|                           |                 | ▲ -5226                    | ▲ -22APB       | ▲ -0223                   | ▲ -22AGS                | ▲ -1223     | ▲ -22A       | 22                              |              |                                                                |   |           |  |  |  |
|                           |                 | -5206                      | -20APB         | -0203                     | -20AGS                  | -1203       | -20A         | 20                              |              |                                                                |   |           |  |  |  |
|                           |                 | -5186                      | -18APB         | -0183                     | -18AGS                  | -1183       | -18A         | 18                              |              |                                                                |   |           |  |  |  |
|                           |                 | -5166                      | -16APB         | -0163                     | -16AGS                  | -1163       | -16A         | 16                              |              |                                                                |   |           |  |  |  |
|                           |                 | -5146                      | -14APB         | -0143                     | -14AGS                  | -1143       | -14A         | 14                              |              |                                                                |   |           |  |  |  |
|                           |                 | -5126                      | -12APB         | -0123                     | -12AGS                  | -1123       | -12A         | 12                              | B            |                                                                |   |           |  |  |  |
|                           |                 | -5106                      | -10APB         | -0103                     | -10AGS                  | -1103       | -10A         | 10                              |              |                                                                |   |           |  |  |  |
|                           |                 | -5086                      | -08APB         | -0083                     | -08AGS                  | -1083       | -08A         | 8                               |              |                                                                |   |           |  |  |  |
|                           |                 | -5066                      | -06APB         | -0063                     | -06AGS                  | -1063       | -06A         | 6                               |              |                                                                |   |           |  |  |  |
|                           |                 | ▼ -5046                    | ▼ -04APB       | ▼ -0043                   | ▼ -04AGS                | ▼ -1043     | ▼ -04A       | 4                               |              |                                                                |   |           |  |  |  |
|                           |                 | 39-29-5026                 | 5566-02APB     | 39-29-0023                | 5566-02AGS              | 39-28-1023  | 5566-02A     | 2                               |              |                                                                |   |           |  |  |  |
|                           |                 | EDP NO.                    | ENG. NO        | EDP NO.                   | ENG. NO                 | EDP NO.     | ENG. NO      | 極数                              |              |                                                                |   |           |  |  |  |
|                           |                 | 5566-NAPB                  |                | 5566-NAGS                 |                         | 5566-NA     |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              | 材料<br>MATERIAL                  |              | molex MOLEX-JAPAN CO.,LTD.<br>日本モレックス株式会社                      |   | 23C-9652A |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 | 5566-NA**-*                |                |                           |                         |             |              | 仕上げ<br>FINISH                   |              | EDP. NO.<br>表 参照                                               |   |           |  |  |  |
|                           |                 | MODEL NO.                  |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 | 角度 ANGLE                   | ±3°            | F                         | SEE SHEET 1 OF 2        | M.N<br>K.T  | '04/5/26     | 適用電線範囲<br>WIRE RANGE            |              | ENG. NO. SHEET 2 OF 2<br>SD-5566-NA**-*                        |   | REV<br>F  |  |  |  |
|                           |                 | 30 以上<br>OVER              | ±0.3           | E                         | SEE SHEET 1 OF 2        | H.H         | '90/6/8      |                                 |              |                                                                |   |           |  |  |  |
|                           |                 | 10 以上 30 未満<br>OVER UNDER  | ±0.25          | D                         | SEE SHEET 1 OF 2        | H.H<br>Y.Y  | '90/5/7      | 被覆外径<br>INS. RANGE              |              | TITLE 名称<br>NEW MINI FIT CONNECTOR<br>HEADER ASS'Y -LEAD FREE- |   |           |  |  |  |
|                           |                 | 10 未満<br>UNDER             | ±0.2           | 記号<br>LTR                 | 変更内容<br>REVISION RECORD | DR.<br>CHK. | 日付<br>DATE   |                                 |              |                                                                |   |           |  |  |  |
|                           |                 | 一般公差<br>GENERAL TOLERANCES |                | REVISE ONLY ON CAD SYSTEM |                         |             |              | DRAWN BY '90/5/7<br>H.HIRAMOTO  |              | CHK'D BY '91/10/29<br>M.FUKUSHIMA                              |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              | APP'D BY '91/10/29<br>M.ENOMOTO |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              | 尺 度<br>SCALE                    |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
|                           |                 |                            |                |                           |                         |             |              |                                 |              |                                                                |   |           |  |  |  |
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