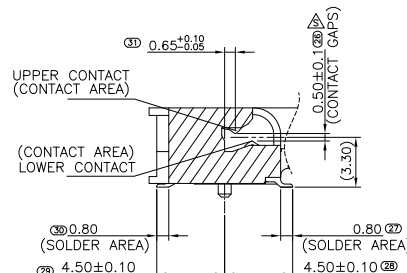
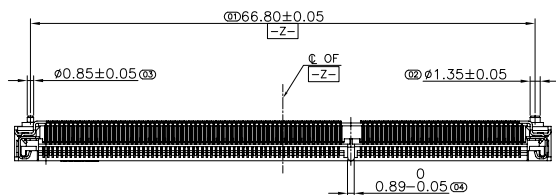
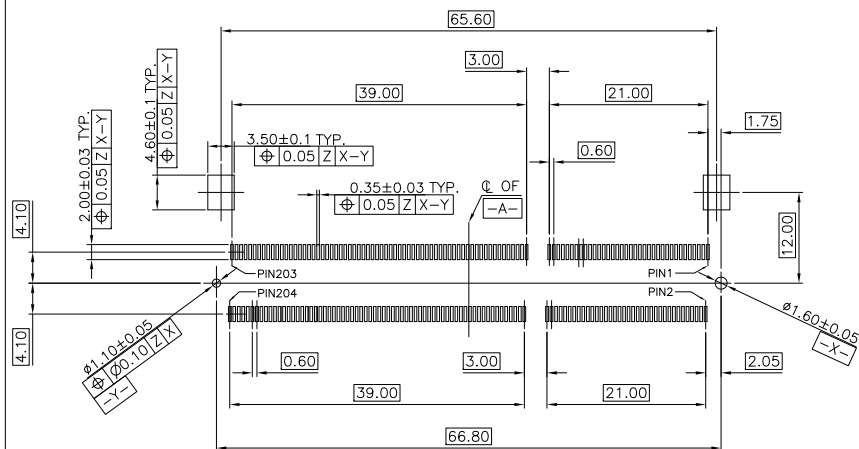
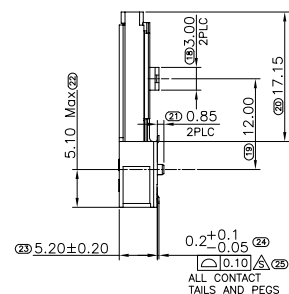
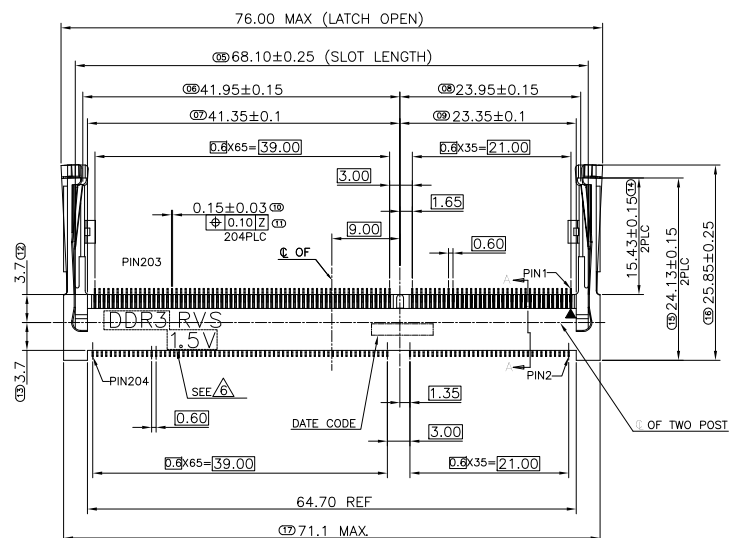


## GP Component

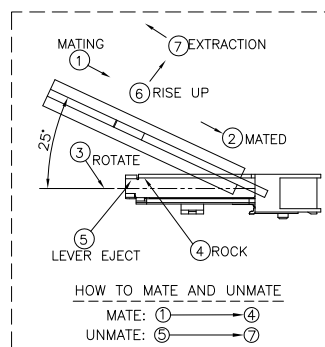
| REV. | ECN NO. | LOCATIONS | DESCRIPTION | DATE       | DESIGN   |
|------|---------|-----------|-------------|------------|----------|
| AO   |         |           | Initial     | 2015/11/02 | Phebe Su |



SECTION A-A  
SCALE 2:1



## RECOMMENDED PCB LAYOUT



NOTES:

1. MATERIAL:

1.1 HOUSING: HIGH TEMPERATURE THERMOPLASTIC, UL94V-0;  
COLOR: BLACK.

1.2 CONTACTS: COPPER ALLOY

1.3 LATCH: STAINLESS STEEL

#### 1.4 FLOATING PEG: STAINLESS STEEL

2. FINISH:

2.1 CONTACT:

GOLD (SEE TABLE) PLATED ON CONTACT AREA AND GOLD 2u"  
SOLDER AREA.50u" MIN. NICKEL UNDERPLATING.

## 2.2 FLOATING PEG:

GOLD FLASH PLATED ON SOLDERING AREA.  
50u" MIN. NICKEL UNDERPLATING.

3. REFLOW SOLDER CAPABLE TO 260°C.

4.  $\Delta$  SHOULD BE MEASURED BY CPK

6. PART NUMBER:

MDDR3-204XX09

Series number

- PLATING CODE:

1: GOLD FLASH 4: Au15u"

2: Au5u"      5: Au20u"

3: Au<sub>10</sub>u"      6: Au<sub>30</sub>u"

MARK & HSG COLOR:

0: DDR3 RVS 1.5V & BLACK

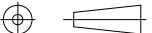
1: DDR3 RVS & BLACK      2: RVS & BLACK

3: DDR3 RVS 1.5V & IVORY

4: DDR3 RVS & IVORY      5: RVS & IVORY

PIN NUMBER CODE:

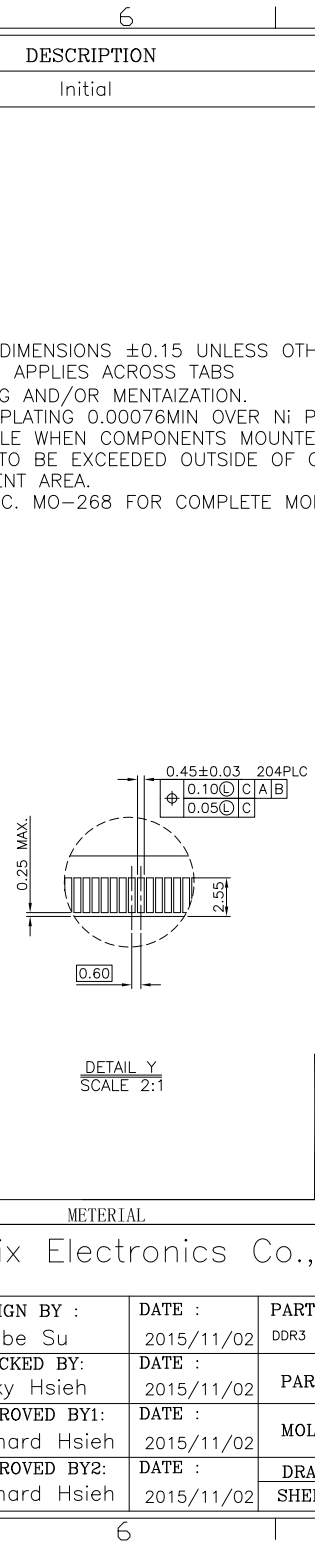
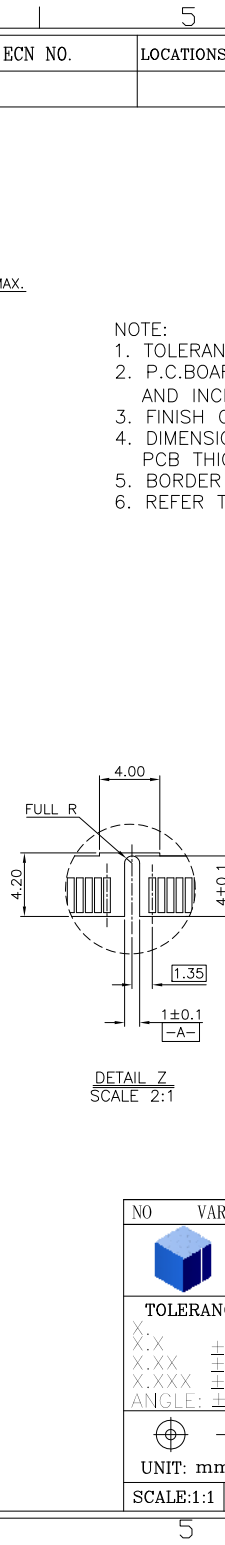
204: 204 PINS

| NO                                                                                                                          | VARIETY        | QTY                                   | MATERIAL                    | REMARK                                          |               |
|-----------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------|-----------------------------|-------------------------------------------------|---------------|
|  <div>Matrix Electronics Co.,Ltd</div> |                |                                       |                             |                                                 |               |
| <b>TOLERANCE:</b><br>X.X ±0.25<br>X.XX ±0.15<br>X.XXX ±0.10<br>ANGLE: ±3°                                                   |                | <b>DESIGN BY :</b><br>Phebe Su        | <b>DATE :</b><br>2015/11/02 | <b>PART NAME:</b><br>DDR3 SO DIMM 5.2H RVS ASSY |               |
|                                                                                                                             |                | <b>CHECKED BY:</b><br>Vicky Hsieh     | <b>DATE :</b><br>2015/11/02 | <b>PART NO.</b>                                 | MDDR3-204XX09 |
|                                        |                | <b>APPROVED BY1:</b><br>Richard Hsieh | <b>DATE :</b><br>2015/11/02 | <b>MOLD NO.</b>                                 | NA            |
| <b>UNIT: mm [inch]</b>                                                                                                      |                | <b>APPROVED BY2:</b><br>Richard Hsieh | <b>DATE :</b><br>2015/11/02 | <b>DRAW NO.</b>                                 |               |
| <b>SCALE:1:1</b>                                                                                                            | <b>SIZE:A4</b> |                                       |                             | <b>SHEET NO.</b>                                | 1 OF 2        |

[illegible]

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                           |                                                                                              |                                                                                                                |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------|----------|--------|----------------------------------------------------|--------|---------------|--|--|---------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------|--|--|--|--|
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6             | 7                                                                                                                         |                                                                                              |                                                                                                                |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
| LOCATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DESCRIPTION   | DATE                                                                                                                      |                                                                                              |                                                                                                                |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Initial       | 2015/11/02                                                                                                                |                                                                                              |                                                                                                                |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
| NOTE:<br>1. TOLERANCES ON ALL DIMENSIONS $\pm 0.15$ UNLESS OTHERWISE SPECIFIED.<br>2. P.C.BOARD THICKNESS APPLIES ACROSS TABS AND INCLUDES PLATING AND/OR MENTAIZATION.<br>3. FINISH OF PAD:GOLD PLATING 0.00076MIN OVER Ni PLATING 0.002MIN.<br>4. DIMENSIONS APPLICABLE WHEN COMPONENTS MOUNTED ON BOTH SIDE. PCB THICKNESS NOT TO BE EXCEEDED OUTSIDE OF COMPONENT AREA.<br>5. BORDER OF COMPONENT AREA.<br>6. REFER TO JEDEC SPEC. MO-268 FOR COMPLETE MODULE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                                                                                                                           |                                                                                              |                                                                                                                |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                           |                                                                                              |                                                                                                                |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                           |                                                                                              |                                                                                                                |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
| <table border="1"> <tr> <td>30.00</td> <td>CA</td> </tr> <tr> <td>31.75</td> <td>BA</td> </tr> <tr> <td>25.40</td> <td>AA</td> </tr> <tr> <td>DIM. A</td> <td>SDRAM VARIATI</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                                           | 30.00                                                                                        | CA                                                                                                             | 31.75 | BA       | 25.40  | AA                                                 | DIM. A | SDRAM VARIATI |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
| 30.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | CA            |                                                                                                                           |                                                                                              |                                                                                                                |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
| 31.75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | BA            |                                                                                                                           |                                                                                              |                                                                                                                |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
| 25.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | AA            |                                                                                                                           |                                                                                              |                                                                                                                |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
| DIM. A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SDRAM VARIATI |                                                                                                                           |                                                                                              |                                                                                                                |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
| <table border="1"> <tr> <td>NO</td> <td>VARIETY</td> <td>QTY</td> <td>METERIAL</td> <td>REMARK</td> </tr> <tr> <td colspan="5"> <div> <div>Matrix Electronics Co.,Ltd</div> </div> </td> </tr> <tr> <td colspan="2">           TOLERANCE:<br/>           X.X <math>\pm 0.25</math><br/>           X.XX <math>\pm 0.15</math><br/>           X.XXX <math>\pm 0.10</math><br/>           ANGLE: <math>\pm 3^\circ</math> </td> <td>           DESIGN BY :<br/>           Phebe Su<br/>           CHECKED BY:<br/>           Vicky Hsieh<br/>           APPROVED BY1:<br/>           Richard Hsieh<br/>           APPROVED BY2:<br/>           Richard Hsieh         </td> <td>           DATE :<br/>           2015/11/02<br/>           DATE :<br/>           2015/11/02<br/>           DATE :<br/>           2015/11/02<br/>           DATE :<br/>           2015/11/02         </td> <td>           PART NAME:<br/>           DDR3 SO DIMM 5.2H RVS ASSY<br/>           PART NO. MDDR3-204X<br/>           MOLD NO. NA<br/>           DRAW NO.<br/>           SHEET NO. 2 OF 2         </td> </tr> <tr> <td colspan="2">           UNIT: mm [inch]<br/>           SCALE:1:1 SIZE:A4         </td> <td></td> <td></td> <td></td> </tr> </table> |               |                                                                                                                           | NO                                                                                           | VARIETY                                                                                                        | QTY   | METERIAL | REMARK | <div> <div>Matrix Electronics Co.,Ltd</div> </div> |        |               |  |  | TOLERANCE:<br>X.X $\pm 0.25$<br>X.XX $\pm 0.15$<br>X.XXX $\pm 0.10$<br>ANGLE: $\pm 3^\circ$ |  | DESIGN BY :<br>Phebe Su<br>CHECKED BY:<br>Vicky Hsieh<br>APPROVED BY1:<br>Richard Hsieh<br>APPROVED BY2:<br>Richard Hsieh | DATE :<br>2015/11/02<br>DATE :<br>2015/11/02<br>DATE :<br>2015/11/02<br>DATE :<br>2015/11/02 | PART NAME:<br>DDR3 SO DIMM 5.2H RVS ASSY<br>PART NO. MDDR3-204X<br>MOLD NO. NA<br>DRAW NO.<br>SHEET NO. 2 OF 2 | UNIT: mm [inch]<br>SCALE:1:1 SIZE:A4 |  |  |  |  |
| NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | VARIETY       | QTY                                                                                                                       | METERIAL                                                                                     | REMARK                                                                                                         |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
| <div> <div>Matrix Electronics Co.,Ltd</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                                                                                                                           |                                                                                              |                                                                                                                |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
| TOLERANCE:<br>X.X $\pm 0.25$<br>X.XX $\pm 0.15$<br>X.XXX $\pm 0.10$<br>ANGLE: $\pm 3^\circ$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               | DESIGN BY :<br>Phebe Su<br>CHECKED BY:<br>Vicky Hsieh<br>APPROVED BY1:<br>Richard Hsieh<br>APPROVED BY2:<br>Richard Hsieh | DATE :<br>2015/11/02<br>DATE :<br>2015/11/02<br>DATE :<br>2015/11/02<br>DATE :<br>2015/11/02 | PART NAME:<br>DDR3 SO DIMM 5.2H RVS ASSY<br>PART NO. MDDR3-204X<br>MOLD NO. NA<br>DRAW NO.<br>SHEET NO. 2 OF 2 |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
| UNIT: mm [inch]<br>SCALE:1:1 SIZE:A4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                                                                                                                           |                                                                                              |                                                                                                                |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6             | 7                                                                                                                         |                                                                                              |                                                                                                                |       |          |        |                                                    |        |               |  |  |                                                                                             |  |                                                                                                                           |                                                                                              |                                                                                                                |                                      |  |  |  |  |



|                                                                                                             |               |          |
|-------------------------------------------------------------------------------------------------------------|---------------|----------|
|                                                                                                             |               | 7        |
|                                                                                                             | DATE          | DESIGN   |
|                                                                                                             | 2015/11/02    | Phebe Su |
| <p>OTHERWISE SPECIFIED.</p> <p>PLATING 0.002MIN.<br/>ED ON BOTH SIDE.<br/>COMPONENT AREA.</p> <p>DDULE.</p> |               |          |
| <p>30.00 CA</p> <p>31.75 BA</p> <p>25.40 AA</p> <p>DIM. A SDRAM VARIATIONS</p>                              |               |          |
| REMARK                                                                                                      |               |          |
| ,Ltd                                                                                                        |               |          |
| <p>RT NAME:</p> <p>3 SO DIMM 5.2H RVS ASSY</p>                                                              |               |          |
| RT NO.                                                                                                      | MDDR3-204XX09 |          |
| OLD NO.                                                                                                     | NA            |          |
| AW NO.                                                                                                      |               |          |
| EET NO.                                                                                                     | 2 OF 2        |          |
|                                                                                                             |               | 7        |

5

6

7

| LOCATIONS | DESCRIPTION | DATE       | DESIGN   |
|-----------|-------------|------------|----------|
|           | Initial     | 2015/11/02 | Phebe Su |

NOTE:

1. TOLERANCES ON ALL DIMENSIONS ±0.15 UNLESS OTHERWISE SPECIFIED.

2. P.C.BOARD THICKNESS APPLIES ACROSS TABS AND INCLUDES PLATING AND/OR MENTAIZATION.

3. FINISH OF PAD:GOLD PLATING 0.00076MIN OVER Ni PLATING 0.002MIN.

4. DIMENSIONS APPLICABLE WHEN COMPONENTS MOUNTED ON BOTH SIDE. PCB THICKNESS NOT TO BE EXCEEDED OUTSIDE OF COMPONENT AREA.

5. BORDER OF COMPONENT AREA.

6. REFER TO JEDEC SPEC. MO-268 FOR COMPLETE MODULE.

4.00

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