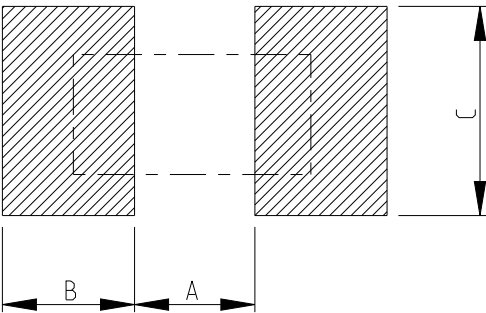


| P | LTR | DESCRIPTION             | DATE      | DWN | APVD |
|---|-----|-------------------------|-----------|-----|------|
|   | BA  | INITIAL DRAWING RELEASE | 22NOV2023 | DM  | AP   |
|   |     |                         |           |     |      |
|   |     |                         |           |     |      |
|   |     |                         |           |     |      |

FOR FURTHER INFORMATION SEE DATA SHEET OF METAL FILM PRECISION  
MELF RESISTOR AEC-Q200 QUALIFIED TYPE SMA-Q SERIES

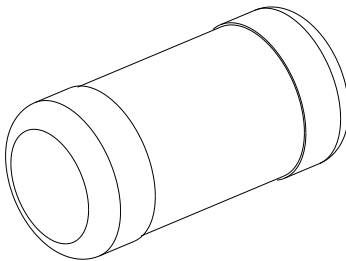
RECOMMENDED LAND PATTERN

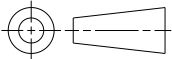


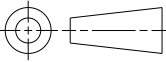
| TYPE       | L<br>(mm) | L1 min.<br>(mm) | ØD<br>(mm) | ØD1<br>(mm) | K<br>(mm)  | WEIGHT<br>MG EA |
|------------|-----------|-----------------|------------|-------------|------------|-----------------|
| SMA-Q 0102 | 2.2 ±0.1  | 1.1             | 1.1 ±0.1   | D +0/-0.15  | 0.45 ±0.05 | 7.7             |

| SIZE       | A<br>(mm) | B<br>(mm) | C<br>(mm) |
|------------|-----------|-----------|-----------|
| SMA-Q 0102 | 1         | 0.8       | 1.5       |

RoHS Compliant



|                                                                                       |  |                                                                         |           |                                                                                                       |                    |                         |                        |           |
|---------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------|--------------------|-------------------------|------------------------|-----------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN<br>DHEERAJ M                                                        | 22NOV2023 |  TE Connectivity |                    |                         |                        |           |
|                                                                                       |  | CHK<br>TRACY G                                                          | 22NOV2023 |                                                                                                       |                    |                         |                        |           |
| DIMENSIONS:<br><br>mm                                                                 |  | TOLERANCES UNLESS<br>OTHERWISE SPECIFIED:                               |           | NAME<br>METAL FILM PRECISION MELF RESISTORS<br>AEC-Q200 QUALIFIED TYPE<br>SMA-Q 0102 SERIES           |                    |                         |                        |           |
|  |  | 0 PLC ±0.2<br>1 PLC ±0.1<br>2 PLC ±<br>3 PLC ±<br>4 PLC ±<br>ANGLES ±5° |           |                                                                                                       |                    |                         |                        |           |
| MATERIAL<br><br>-<br><br>-                                                            |  | FINISH<br><br>-<br><br>-                                                |           | SIZE<br>A 3                                                                                           | CAGE CODE<br>00779 | DRAWING NO<br>C=2176645 | RESTRICTED TO<br><br>- |           |
| CUSTOMER DRAWING                                                                      |  |                                                                         |           |                                                                                                       |                    | SCALE<br>40:1           | SHEET<br>1 OF 3        | REV<br>BA |

|                                                                                       |  |                                        |      |
|---------------------------------------------------------------------------------------|--|----------------------------------------|------|
| DIMENSIONS:                                                                           |  | TOLERANCES UNLESS OTHERWISE SPECIFIED: |      |
| mm                                                                                    |  |                                        |      |
|  |  | 0 PLC                                  | ±0.2 |
|                                                                                       |  | 1 PLC                                  | ±0.1 |
|                                                                                       |  | 2 PLC                                  | ±-   |
|                                                                                       |  | 3 PLC                                  | ±-   |
|                                                                                       |  | 4 PLC                                  | ±-   |
|                                                                                       |  | ANGLES                                 | ±5°  |
| MATERIAL                                                                              |  | FINISH                                 |      |
| -                                                                                     |  | -                                      |      |
| -                                                                                     |  | -                                      |      |

REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|-----|-------------|------|-----|------|
|   | -   | SEE SHEET 1 | -    | -   | -    |
|   |     |             |      |     |      |
|   |     |             |      |     |      |
|   |     |             |      |     |      |

| SCHEDULE    |                   |                                    |             |
|-------------|-------------------|------------------------------------|-------------|
| TCPN        | CATALOGUE NUMBER  | PART DESCRIPTION                   | PART STATUS |
| 2176645-1   | SMA-Q0102FTDL1R0  | MELF SMA-Q 1R0 1% 50PPM 0102 0.3W  | PRODUCTION  |
| 2176645-2   | SMA-Q0102FTDL1R02 | MELF SMA-Q 1R02 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2176645-3   | SMA-Q0102FTDL1R05 | MELF SMA-Q 1R05 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2176645-4   | SMA-Q0102FTDL1R07 | MELF SMA-Q 1R07 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2176645-5   | SMA-Q0102FTDL1R1  | MELF SMA-Q 1R1 1% 50PPM 0102 0.3W  | PRODUCTION  |
| 2176645-6   | SMA-Q0102FTDL1R13 | MELF SMA-Q 1R13 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2176645-7   | SMA-Q0102FTDL1R15 | MELF SMA-Q 1R15 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2176645-8   | SMA-Q0102FTDL1R18 | MELF SMA-Q 1R18 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2176645-9   | SMA-Q0102FTDL1R21 | MELF SMA-Q 1R21 1% 50PPM 0102 0.3W | PRODUCTION  |
| 1-2176645-0 | SMA-Q0102FTDL1R24 | MELF SMA-Q 1R24 1% 50PPM 0102 0.3W | PRODUCTION  |
| 1-2176645-1 | SMA-Q0102FTDL1R27 | MELF SMA-Q 1R27 1% 50PPM 0102 0.3W | PRODUCTION  |
| 1-2176645-2 | SMA-Q0102FTDL1R3  | MELF SMA-Q 1R3 1% 50PPM 0102 0.3W  | PRODUCTION  |
| 1-2176645-3 | SMA-Q0102FTDL1R33 | MELF SMA-Q 1R33 1% 50PPM 0102 0.3W | PRODUCTION  |
| 1-2176645-4 | SMA-Q0102FTDL1R37 | MELF SMA-Q 1R37 1% 50PPM 0102 0.3W | PRODUCTION  |
| 1-2176645-5 | SMA-Q0102FTDL1R4  | MELF SMA-Q 1R4 1% 50PPM 0102 0.3W  | PRODUCTION  |
| 1-2176645-6 | SMA-Q0102FTDL1R43 | MELF SMA-Q 1R43 1% 50PPM 0102 0.3W | PRODUCTION  |
| 1-2176645-7 | SMA-Q0102FTDL1R47 | MELF SMA-Q 1R47 1% 50PPM 0102 0.3W | PRODUCTION  |
| 1-2176645-8 | SMA-Q0102FTDL1R5  | MELF SMA-Q 1R5 1% 50PPM 0102 0.3W  | PRODUCTION  |
| 1-2176645-9 | SMA-Q0102FTDL1R54 | MELF SMA-Q 1R54 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2-2176645-0 | SMA-Q0102FTDL1R58 | MELF SMA-Q 1R58 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2-2176645-1 | SMA-Q0102FTDL1R62 | MELF SMA-Q 1R62 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2-2176645-2 | SMA-Q0102FTDL1R65 | MELF SMA-Q 1R65 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2-2176645-3 | SMA-Q0102FTDL1R69 | MELF SMA-Q 1R69 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2-2176645-4 | SMA-Q0102FTDL1R74 | MELF SMA-Q 1R74 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2-2176645-5 | SMA-Q0102FTDL1R78 | MELF SMA-Q 1R78 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2-2176645-6 | SMA-Q0102FTDL1R82 | MELF SMA-Q 1R82 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2-2176645-7 | SMA-Q0102FTDL1R87 | MELF SMA-Q 1R87 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2-2176645-8 | SMA-Q0102FTDL1R91 | MELF SMA-Q 1R91 1% 50PPM 0102 0.3W | PRODUCTION  |
| 2-2176645-9 | SMA-Q0102FTDL1R96 | MELF SMA-Q 1R96 1% 50PPM 0102 0.3W | PRODUCTION  |
| 3-2176645-0 | SMA-Q0102FTDL2R0  | MELF SMA-Q 2R0 1% 50PPM 0102 0.3W  | PRODUCTION  |
| 3-2176645-1 | SMA-Q0102FTDL2R05 | MELF SMA-Q 2R05 1% 50PPM 0102 0.3W | PRODUCTION  |
| 3-2176645-2 | SMA-Q0102FTDL2R1  | MELF SMA-Q 2R1 1% 50PPM 0102 0.3W  | PRODUCTION  |
| 3-2176645-3 | SMA-Q0102FTDL2R15 | MELF SMA-Q 2R15 1% 50PPM 0102 0.3W | PRODUCTION  |

| SCHEDULE    |                   |                                    |             |
|-------------|-------------------|------------------------------------|-------------|
| TCPN        | CATALOGUE NUMBER  | PART DESCRIPTION                   | PART STATUS |
| 3-2176645-4 | SMA-Q0102FTDL2R21 | MELF SMA-Q 2R21 1% 50PPM 0102 0.3W | PRODUCTION  |
| 3-2176645-5 | SMA-Q0102FTDL2R26 | MELF SMA-Q 2R26 1% 50PPM 0102 0.3W | PRODUCTION  |
| 3-2176645-6 | SMA-Q0102FTDL2R32 | MELF SMA-Q 2R32 1% 50PPM 0102 0.3W | PRODUCTION  |
| 3-2176645-7 | SMA-Q0102FTDL2R37 | MELF SMA-Q 2R37 1% 50PPM 0102 0.3W | PRODUCTION  |
| 3-2176645-8 | SMA-Q0102FTDL2R43 | MELF SMA-Q 2R43 1% 50PPM 0102 0.3W | PRODUCTION  |
| 3-2176645-9 | SMA-Q0102FTDL2R49 | MELF SMA-Q 2R49 1% 50PPM 0102 0.3W | PRODUCTION  |
| 4-2176645-0 | SMA-Q0102FTDL2R55 | MELF SMA-Q 2R55 1% 50PPM 0102 0.3W | PRODUCTION  |
| 4-2176645-1 | SMA-Q0102FTDL2R61 | MELF SMA-Q 2R61 1% 50PPM 0102 0.3W | PRODUCTION  |
| 4-2176645-2 | SMA-Q0102FTDL2R67 | MELF SMA-Q 2R67 1% 50PPM 0102 0.3W | PRODUCTION  |
| 4-2176645-3 | SMA-Q0102FTDL2R74 | MELF SMA-Q 2R74 1% 50PPM 0102 0.3W | PRODUCTION  |
| 4-2176645-4 | SMA-Q0102FTDL2R8  | MELF SMA-Q 2R8 1% 50PPM 0102 0.3W  | PRODUCTION  |
| 4-2176645-5 | SMA-Q0102FTDL2R87 | MELF SMA-Q 2R87 1% 50PPM 0102 0.3W | PRODUCTION  |
| 4-2176645-6 | SMA-Q0102FTDL2R94 | MELF SMA-Q 2R94 1% 50PPM 0102 0.3W | PRODUCTION  |
| 4-2176645-7 | SMA-Q0102FTDL3R01 | MELF SMA-Q 3R01 1% 50PPM 0102 0.3W | PRODUCTION  |
| 4-2176645-8 | SMA-Q0102FTDL3R09 | MELF SMA-Q 3R09 1% 50PPM 0102 0.3W | PRODUCTION  |
| 4-2176645-9 | SMA-Q0102FTDL3R16 | MELF SMA-Q 3R16 1% 50PPM 0102 0.3W | PRODUCTION  |
| 5-2176645-0 | SMA-Q0102FTDL3R24 | MELF SMA-Q 3R24 1% 50PPM 0102 0.3W | PRODUCTION  |
| 5-2176645-1 | SMA-Q0102FTDL3R32 | MELF SMA-Q 3R32 1% 50PPM 0102 0.3W | PRODUCTION  |
| 5-2176645-2 | SMA-Q0102FTDL3R4  | MELF SMA-Q 3R4 1% 50PPM 0102 0.3W  | PRODUCTION  |
| 5-2176645-3 | SMA-Q0102FTDL3R48 | MELF SMA-Q 3R48 1% 50PPM 0102 0.3W | PRODUCTION  |
| 5-2176645-4 | SMA-Q0102FTDL3R57 | MELF SMA-Q 3R57 1% 50PPM 0102 0.3W | PRODUCTION  |
| 5-2176645-5 | SMA-Q0102FTDL3R65 | MELF SMA-Q 3R65 1% 50PPM 0102 0.3W | PRODUCTION  |
| 5-2176645-6 | SMA-Q0102FTDL3R74 | MELF SMA-Q 3R74 1% 50PPM 0102 0.3W | PRODUCTION  |
| 5-2176645-7 | SMA-Q0102FTDL3R83 | MELF SMA-Q 3R83 1% 50PPM 0102 0.3W | PRODUCTION  |
| 5-2176645-8 | SMA-Q0102FTDL3R92 | MELF SMA-Q 3R92 1% 50PPM 0102 0.3W | PRODUCTION  |
| 5-2176645-9 | SMA-Q0102FTDL4R02 | MELF SMA-Q 4R02 1% 50PPM 0102 0.3W | PRODUCTION  |
| 6-2176645-0 | SMA-Q0102FTDL4R12 | MELF SMA-Q 4R12 1% 50PPM 0102 0.3W | PRODUCTION  |
| 6-2176645-1 | SMA-Q0102FTDL4R22 | MELF SMA-Q 4R22 1% 50PPM 0102 0.3W | PRODUCTION  |
| 6-2176645-2 | SMA-Q0102FTDL4R32 | MELF SMA-Q 4R32 1% 50PPM 0102 0.3W | PRODUCTION  |
| 6-2176645-3 | SMA-Q0102FTDL4R42 | MELF SMA-Q 4R42 1% 50PPM 0102 0.3W | PRODUCTION  |
| 6-2176645-4 | SMA-Q0102FTDL4R53 | MELF SMA-Q 4R53 1% 50PPM 0102 0.3W | PRODUCTION  |
| 6-2176645-5 | SMA-Q0102FTDL4R64 | MELF SMA-Q 4R64 1% 50PPM 0102 0.3W | PRODUCTION  |
| 6-2176645-6 | SMA-Q0102FTDL4R75 | MELF SMA-Q 4R75 1% 50PPM 0102 0.3W | PRODUCTION  |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
mm

MATERIAL

-

-

TOLERANCES UNLESS OTHERWISE SPECIFIED:

0 PLC ±0.2

1 PLC ±0.1

2 PLC ±-

3 PLC ±-

4 PLC ±-

ANGLES ±5°

FINISH

-

-

DWN  
DHEERAJ M  
CHK  
TRACY G  
APVD  
ALLAN P  
PRODUCT SPEC  
-  
APPLICATION SPEC  
-  
WEIGHT  
-

22NOV2023  
22NOV2023  
22NOV2023

TE Connectivity

NAME

METAL FILM PRECISION MELF RESISTORS  
AEC-Q200 QUALIFIED TYPE  
SMA-Q 0102 SERIES

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A3

00779

©-2176645

-

CUSTOMER DRAWING

SCALE  
40:1

SHEET  
2 OF 3

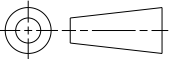
REV  
BA

1470-19 (3/13)

REVISIONS

| P | LTR | DESCRIPTION | DATE | DWN | APVD |
|---|-----|-------------|------|-----|------|
|   | -   | SEE SHEET 1 | -    | -   | -    |
|   |     |             |      |     |      |
|   |     |             |      |     |      |
|   |     |             |      |     |      |

| SCHEDULE    |                   |                                    |             |
|-------------|-------------------|------------------------------------|-------------|
| TCPN        | CATALOGUE NUMBER  | PART DESCRIPTION                   | PART STATUS |
| 6-2176645-7 | SMA-Q0102FTDL4R87 | MELF SMA-Q 4R87 1% 50PPM 0102 0.3W | PRODUCTION  |
| 6-2176645-8 | SMA-Q0102FTDL4R99 | MELF SMA-Q 4R99 1% 50PPM 0102 0.3W | PRODUCTION  |
| 6-2176645-9 | SMA-Q0102FTDL5R11 | MELF SMA-Q 5R11 1% 50PPM 0102 0.3W | PRODUCTION  |
| 7-2176645-0 | SMA-Q0102FTDL5R23 | MELF SMA-Q 5R23 1% 50PPM 0102 0.3W | PRODUCTION  |
| 7-2176645-1 | SMA-Q0102FTDL5R36 | MELF SMA-Q 5R36 1% 50PPM 0102 0.3W | PRODUCTION  |
| 7-2176645-2 | SMA-Q0102FTDL5R49 | MELF SMA-Q 5R49 1% 50PPM 0102 0.3W | PRODUCTION  |
| 7-2176645-3 | SMA-Q0102FTDL5R62 | MELF SMA-Q 5R62 1% 50PPM 0102 0.3W | PRODUCTION  |
| 7-2176645-4 | SMA-Q0102FTDL5R76 | MELF SMA-Q 5R76 1% 50PPM 0102 0.3W | PRODUCTION  |
| 7-2176645-5 | SMA-Q0102FTDL5R9  | MELF SMA-Q 5R9 1% 50PPM 0102 0.3W  | PRODUCTION  |
| 7-2176645-6 | SMA-Q0102FTDL6R04 | MELF SMA-Q 6R04 1% 50PPM 0102 0.3W | PRODUCTION  |
| 7-2176645-7 | SMA-Q0102FTDL6R19 | MELF SMA-Q 6R19 1% 50PPM 0102 0.3W | PRODUCTION  |
| 7-2176645-8 | SMA-Q0102FTDL6R34 | MELF SMA-Q 6R34 1% 50PPM 0102 0.3W | PRODUCTION  |
| 7-2176645-9 | SMA-Q0102FTDL6R49 | MELF SMA-Q 6R49 1% 50PPM 0102 0.3W | PRODUCTION  |
| 8-2176645-0 | SMA-Q0102FTDL6R65 | MELF SMA-Q 6R65 1% 50PPM 0102 0.3W | PRODUCTION  |
| 8-2176645-1 | SMA-Q0102FTDL6R81 | MELF SMA-Q 6R81 1% 50PPM 0102 0.3W | PRODUCTION  |
| 8-2176645-2 | SMA-Q0102FTDL6R98 | MELF SMA-Q 6R98 1% 50PPM 0102 0.3W | PRODUCTION  |
| 8-2176645-3 | SMA-Q0102FTDL7R15 | MELF SMA-Q 7R15 1% 50PPM 0102 0.3W | PRODUCTION  |
| 8-2176645-4 | SMA-Q0102FTDL7R32 | MELF SMA-Q 7R32 1% 50PPM 0102 0.3W | PRODUCTION  |
| 8-2176645-5 | SMA-Q0102FTDL7R5  | MELF SMA-Q 7R5 1% 50PPM 0102 0.3W  | PRODUCTION  |
| 8-2176645-6 | SMA-Q0102FTDL7R68 | MELF SMA-Q 7R68 1% 50PPM 0102 0.3W | PRODUCTION  |
| 8-2176645-7 | SMA-Q0102FTDL7R87 | MELF SMA-Q 7R87 1% 50PPM 0102 0.3W | PRODUCTION  |
| 8-2176645-8 | SMA-Q0102FTDL8R06 | MELF SMA-Q 8R06 1% 50PPM 0102 0.3W | PRODUCTION  |
| 8-2176645-9 | SMA-Q0102FTDL8R25 | MELF SMA-Q 8R25 1% 50PPM 0102 0.3W | PRODUCTION  |
| 9-2176645-0 | SMA-Q0102FTDL8R45 | MELF SMA-Q 8R45 1% 50PPM 0102 0.3W | PRODUCTION  |
| 9-2176645-1 | SMA-Q0102FTDL8R66 | MELF SMA-Q 8R66 1% 50PPM 0102 0.3W | PRODUCTION  |
| 9-2176645-2 | SMA-Q0102FTDL8R87 | MELF SMA-Q 8R87 1% 50PPM 0102 0.3W | PRODUCTION  |
| 9-2176645-3 | SMA-Q0102FTDL9R09 | MELF SMA-Q 9R09 1% 50PPM 0102 0.3W | PRODUCTION  |
| 9-2176645-4 | SMA-Q0102FTDL9R31 | MELF SMA-Q 9R31 1% 50PPM 0102 0.3W | PRODUCTION  |
| 9-2176645-5 | SMA-Q0102FTDL9R53 | MELF SMA-Q 9R53 1% 50PPM 0102 0.3W | PRODUCTION  |
| 9-2176645-6 | SMA-Q0102FTDL9R76 | MELF SMA-Q 9R76 1% 50PPM 0102 0.3W | PRODUCTION  |
| 9-2176645-7 | SMA-Q0102FTDL10R  | MELF SMA-Q 10R 1% 50PPM 0102 0.3W  | PRODUCTION  |
| 9-2176645-8 | SMA-Q0102FTDL10R2 | MELF SMA-Q 10R2 1% 50PPM 0102 0.3W | PRODUCTION  |
| 9-2176645-9 | SMA-Q0102FTDL10R5 | MELF SMA-Q 10R5 1% 50PPM 0102 0.3W | PRODUCTION  |

|                                        |                                                                                       |                                                                            |                   |                                                                                                       |                                                                                             |                    |                         |                    |
|----------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------|-------------------------|--------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. |                                                                                       | DWN<br>DHEERAJ M                                                           | 22NOV2023         |  TE Connectivity |                                                                                             |                    |                         |                    |
|                                        |                                                                                       | CHK<br>TRACY G                                                             | 22NOV2023         |                                                                                                       |                                                                                             |                    |                         |                    |
| DIMENSIONS:<br><br>mm                  |  | TOLERANCES UNLESS OTHERWISE SPECIFIED:                                     | APVD<br>ALLAN P   | 22NOV2023                                                                                             | NAME<br>METAL FILM PRECISION MELF RESISTORS<br>AEC-Q200 QUALIFIED TYPE<br>SMA-Q 0102 SERIES |                    |                         |                    |
|                                        |                                                                                       | 0 PLC ±0.2<br>1 PLC ±0.1<br>2 PLC ±-<br>3 PLC ±-<br>4 PLC ±-<br>ANGLES ±5° | PRODUCT SPEC<br>- |                                                                                                       |                                                                                             |                    |                         |                    |
| MATERIAL<br><br>-<br>-                 | FINISH<br><br>-<br>-                                                                  | APPLICATION SPEC<br>-                                                      | SIZE<br>A 3       |                                                                                                       |                                                                                             | CAGE CODE<br>00779 | DRAWING NO<br>C-2176645 | RESTRICTED TO<br>- |
|                                        |                                                                                       | WEIGHT<br>-                                                                | SCALE<br>40:1     |                                                                                                       |                                                                                             | SHEET<br>3 OF 3    | REV<br>BA               |                    |
|                                        |                                                                                       | CUSTOMER DRAWING                                                           |                   |                                                                                                       |                                                                                             |                    |                         |                    |