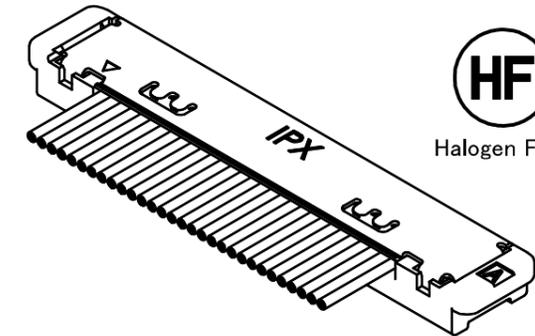


Recommended P/N 20380-R\*\*T-06 (10P / 14P / 20P / 30P / 32P / 35P) 20380-R\*\*T-16 (40P / 50P)

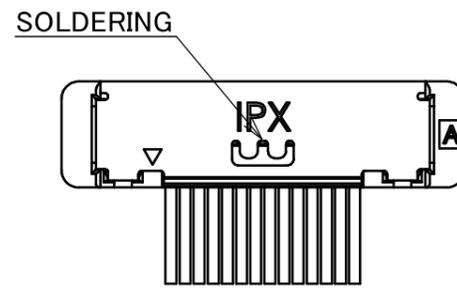
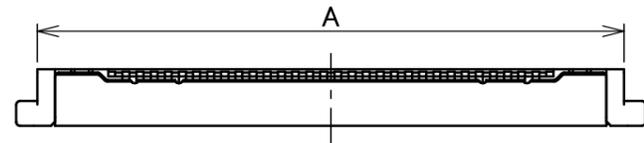
| PART NO.      | POS. | MATING RECEPTACLE P/N | A    | B    | C    |
|---------------|------|-----------------------|------|------|------|
| 20380-R10T-06 | 10   | 20374-R10E-31         | 8.6  | 9.8  | 3.6  |
| 20380-R14T-06 | 14   | 20374-R14E-31         | 10.2 | 11.4 | 5.2  |
| 20380-R20T-06 | 20   | 20374-R20E-31         | 12.6 | 13.8 | 7.6  |
| 20380-R30T-06 | 30   | 20374-R30E-31         | 16.6 | 17.8 | 11.6 |
| 20380-R32T-06 | 32   | 20374-R32E-31         | 17.4 | 18.6 | 12.4 |
| 20380-R35T-06 | 35   | 20374-R35E-31         | 18.6 | 19.8 | 13.6 |
| 20380-R40T-16 | 40   | 20374-R40E-31         | 20.6 | 21.8 | 15.6 |
| 20380-R50T-16 | 50   | 20374-R50E-31         | 24.6 | 25.8 | 19.6 |



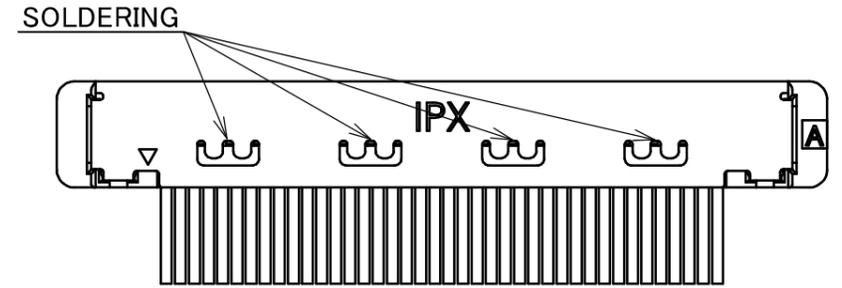
Halogen Free



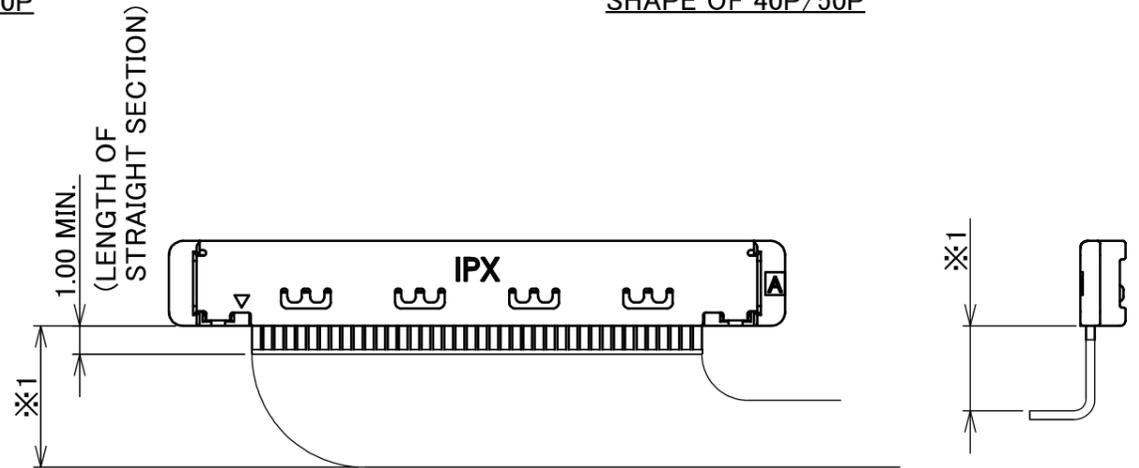
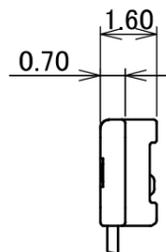
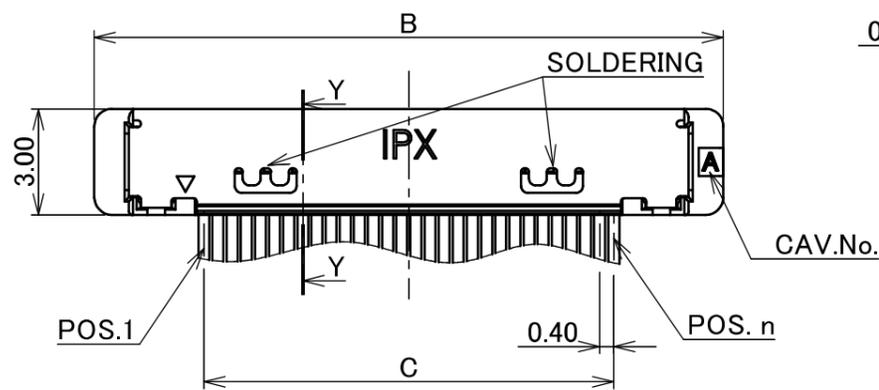
RoHS Compliant



SHAPE OF 10P/14P/20P

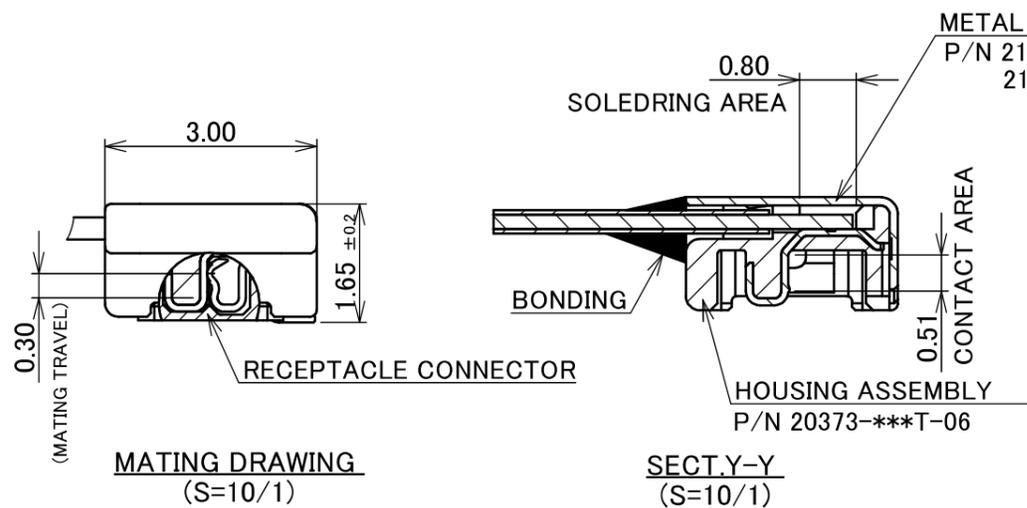


SHAPE OF 40P/50P



REFERENCE CABLE BENDING DIMENSIONS

\*1 : THE BEND DIMENSIONS MAY VARY BASED ON THE SIZE AND QUANTITY OF CABLES. PLEASE CONFIRM THE MINIMUM BENDING RADIUS WITH I-PEX OR THE HARNESS MANUFACTURER.



MATING DRAWING (S=10/1)

SECT.Y-Y (S=10/1)

| NO.             | DISCRIPTION    | MATERIAL        | FINISH, REMARKS  |
|-----------------|----------------|-----------------|--|
| 3               | METAL COVER    | PHOSPHOR BRONZE | Sn REFLOW 1.00 μm MIN.   |
| 2               | CONTACT        | PHOSPHOR BRONZE | CONTACT AREA: Au 0.1 μm MIN. OVER Ni 1.00 μm MIN.<br>SOLDERING AREA: Au 0.1 μm MIN. OVER Ni 1.00 μm MIN. |
| 1               | HOUSING        | LCP             | UL94V-0, BLACK   |
| 31              | ZC00543 RYO    | 2026/03/16 T.M  | ANGLE ±2° 6 OVER 30 MAX. ±0.3  |
| 30              | ZC00398 A.K    | 2026/01/05 T.M  | 6 MAX. ±0.2 30 OVER 120 MAX. ±0.5  |
| 29              | Z250961 T.T    | 2025/06/16 H.I  | GENERAL TOLERANCE.   |
| 28              | Z241437 T.T    | 2024/10/17 H.I  | DWG. H.Ikari DATE 2004/07/30   |
| 27              | Z240824 RYO    | 2024/06/26 H.I  | CHK. E.Kawabe  |
| 26              | Z230099 K.Hara | 2023/01/24 H.I  | APP. T.Harada  |
| REV.            | ECN            | BY              | DATE   |
| REVISION RECORD |                |                 |  |

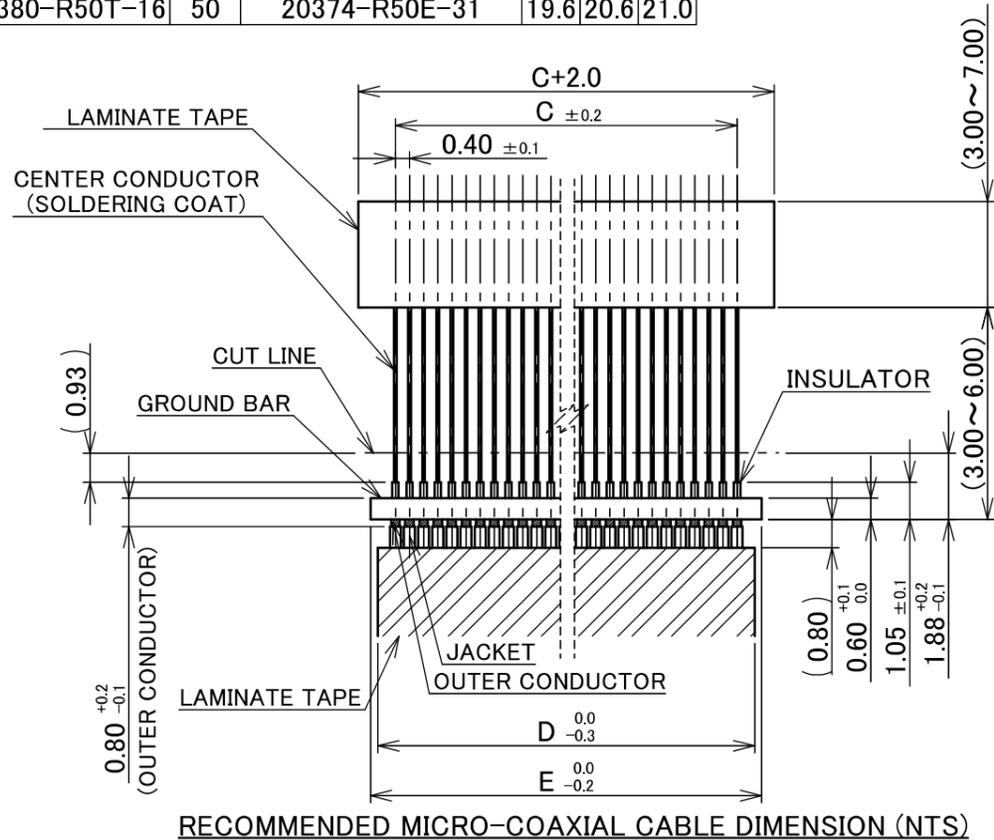
NOTES.  
1. THE CABLE MUST NOT HOLD WHEN UN-MATING A CONNECTOR.

|                           |            |               |
|---------------------------|------------|---------------|
| PROJECTION                | SERIES No. | CUSTOMER COPY |
|                           | R9R3       |               |
| TITLE                     | SCALE      | <b>I-PEX</b>  |
| CABLINER <sup>®</sup> -SS | 5:1        |               |
| PLUG FOR CABLE ASSEMBLY   | UNIT       |               |
| DWG. No.                  | SIZE       | mm            |
| 20380                     | A3         | SHEET         |
|                           | 1/3        | REV.          |
|                           |            | 31            |

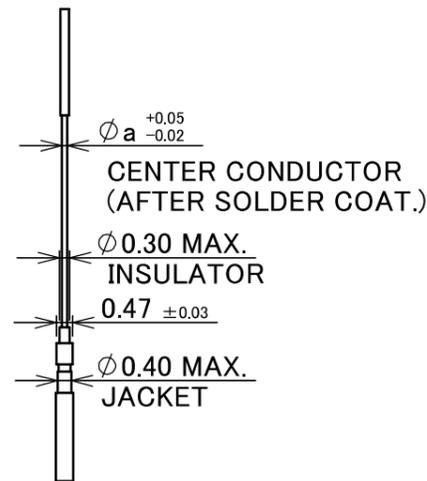
| ITEMS                                 | SPECIFICATION   |
|---------------------------------------|---|
| APPLICABLE CABLE                      | MICRO-COAXIAL CABLE : AWG# 42 , 40 , 38 , 36<br>DISCRETE WIRE : AWG# 36 , 34  |
| RATING VOLTAGE                        | 100V AC (PER CONTACT PIN)<br>※THIS IS THE RATED VOLTAGE OF THE CONNECTOR.<br>PLEASE NOTE THAT THE RATED VOLTAGE MAY VARY IN THE HARNESS<br>DEPENDING ON THE CABLES USED.  |
| RATING AMPERAGE (FOR CONTACT)         | 0.24A AC/DC [AWG#42] (Per Contact Pin/Up to 50 Contacts)<br>0.25A AC/DC [AWG#40] (Per Contact Pin/Up to 50 Contacts)<br>0.30A AC/DC [AWG#40] (Per Contact Pin/Up to 32 Contacts)<br>0.33A AC/DC [AWG#38] (Per Contact Pin/Up to 50 Contacts)<br>0.50A AC/DC [AWG#38] (Per Contact Pin/Up to 12 Contacts)<br>0.35A AC/DC [AWG#36] (Per Contact Pin/Up to 50 Contacts)<br>0.40A AC/DC [AWG#36] (Per Contact Pin/Up to 37 Contacts)<br>0.80A AC/DC [AWG#36] (Per Contact Pin/Up to 4 Contacts)<br>0.35A AC/DC [AWG#34] (Per Contact Pin/Up to 50 Contacts)<br>1.00A AC/DC [AWG#34] (Per Contact Pin/Up to 2 Contacts)<br>※TESTING BY A REAL MACHINE IS RECOMMENDED BECAUSE TEMPERATURE RISE<br>MAY AFFECTED BY ACTUAL SITUATION. |
| OPERATING TEMPERATURE                 | 233~358K(-40°C~+85°C)   |
| OPERATING HUMIDITY                    | 85% MAX.(NON-CONDENSING)  |
| CONTACT RESISTANCE                    | INITIAL : 180mohm MAX. (AWG#34) / AFTER TEST : $\triangle$ 40mohm MAX.<br>275mohm MAX. (AWG#36)<br>360mohm MAX. (AWG#38)<br>600mohm MAX. (AWG#40)<br>700mohm MAX. (AWG#42)<br>(INITIAL CONTAINS THE CONDUCTOR RESISTANCE OF A CABLE 100mm)  |
| GROUND SHELL RESISTANCE               | INITIAL : 50mohm MAX. / AFTER TEST : $\triangle$ 40mohm MAX.  |
| INSULATION RESISTANCE                 | INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.   |
| DIELECTRIC WITHSTANDING VOLTAGE       | AC250V 1min   |
| DURABILITY                            | 30 CYCLES   |
| MATING FORCE (INITIAL / AFTER TEST)   | 10P : 29.00N MAX.    32P : 33.40N MAX.<br>14P : 29.80N MAX.    35P : 34.00N MAX.<br>20P : 31.00N MAX.    40P : 35.00N MAX.<br>30P : 33.00N MAX.    50P : 38.00N MAX.  |
| UNMATING FORCE (INITIAL / AFTER TEST) | 10P : INITIAL : 4.00N MIN. / AFTER 30 CYCLES : 2.87N MIN.<br>14P : INITIAL : 4.40N MIN. / AFTER 30 CYCLES : 3.23N MIN.<br>20P : INITIAL : 5.00N MIN. / AFTER 30 CYCLES : 3.76N MIN.<br>30P : INITIAL : 6.00N MIN. / AFTER 30 CYCLES : 4.65N MIN.<br>32P : INITIAL : 6.20N MIN. / AFTER 30 CYCLES : 4.84N MIN.<br>35P : INITIAL : 6.50N MIN. / AFTER 30 CYCLES : 5.07N MIN.<br>40P : INITIAL : 7.00N MIN. / AFTER 30 CYCLES : 5.50N MIN.<br>50P : INITIAL : 8.00N MIN. / AFTER 30 CYCLES : 6.41N MIN.  |
| CABLE RETENTION FORCE                 | 10P : 4.90N MIN.    32P : 15.68N MIN.<br>14P : 6.86N MIN.    35P : 17.15N MIN.<br>20P : 9.80N MIN.    40P : 19.60N MIN.<br>30P : 14.70N MIN.    50P : 24.50N MIN.   |
| PRODUCT SPECIFICATION                 | PRS-1239  |
| TEST REPORT                           | TR-04037  |
| INSTRUCTION MANUAL                    | HIM-04001   |
| ASSEMBLY MANUAL                       | ASM-04001   |
| APPEARANCE CRITERIA No.               | QLS-A***  |

|                    |               |                |                  |  |                            |               |              |            |
|--------------------|---------------|----------------|------------------|--|----------------------------|---------------|--------------|------------|
| ANGLE              | $\pm 2^\circ$ | 6 OVER 30 MAX. | $\pm 0.3$        | PROJECTION<br>   | SERIES No.<br>R9R3         | CUSTOMER COPY |              |            |
|                    | 6 MAX.        | $\pm 0.2$      | 30 OVER 120 MAX. |  |                            |               |              |            |
| GENERAL TOLERANCE. |               |                |                  | TITLE<br>CABLIN <sup>®</sup> -SS<br>PLUG<br>FOR CABLE ASSEMBLY | SCALE<br>5:1<br>UNIT<br>mm |               |              |            |
| DWG.               | DATE          |                |                  |  |                            |               |              |            |
| CHK.               |               |                |                  |  |                            |               |              |            |
| APP.               |               |                |                  |  |                            |               |              |            |
|                    |               |                |                  | DWG. No.   | 20380                      | SIZE<br>A3    | SHEET<br>2/3 | REV.<br>31 |

| PART NO.      | POS. | MATING RECEPT P/N | C    | D    | E    |
|---------------|------|-------------------|------|------|------|
| 20380-R10T-06 | 10   | 20374-R10E-31     | 3.6  | 4.6  | 5.0  |
| 20380-R14T-06 | 14   | 20374-R14E-31     | 5.2  | 6.2  | 6.6  |
| 20380-R20T-06 | 20   | 20374-R20E-31     | 7.6  | 8.6  | 9.0  |
| 20380-R30T-06 | 30   | 20374-R30E-31     | 11.6 | 12.6 | 13.0 |
| 20380-R32T-06 | 32   | 20374-R32E-31     | 12.4 | 13.4 | 13.8 |
| 20380-R35T-06 | 35   | 20374-R35E-31     | 13.6 | 14.6 | 15.0 |
| 20380-R40T-16 | 40   | 20374-R40E-31     | 15.6 | 16.6 | 17.0 |
| 20380-R50T-16 | 50   | 20374-R50E-31     | 19.6 | 20.6 | 21.0 |



RECOMMENDED MICRO-COAXIAL CABLE DIMENSION (NTS)



MICRO-COAXIAL CABLE (AWG #42,40,36)

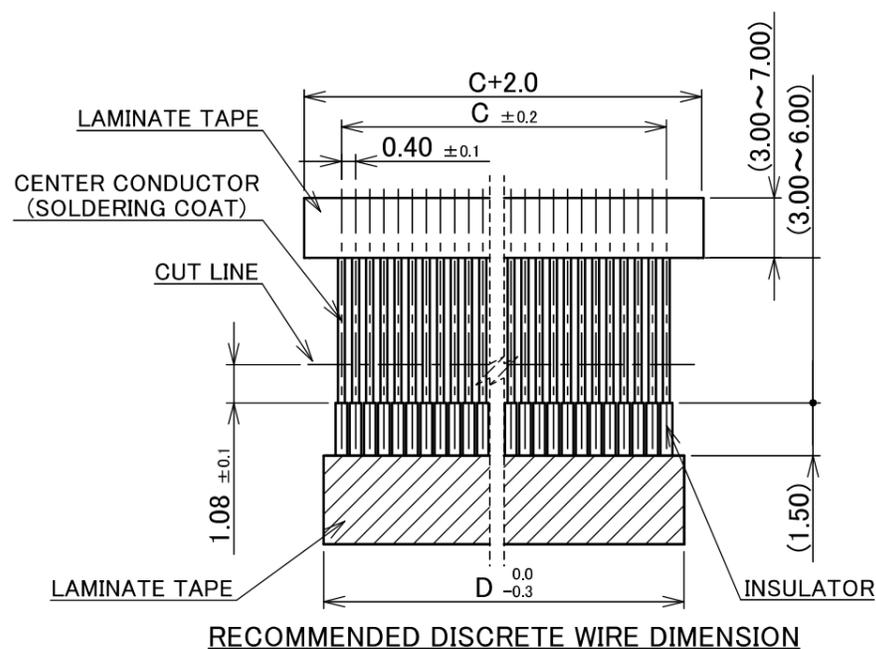
CHARACTERISTIC IMPEDANCE MACHING MICRO-COAXIAL CABLE

|     | a       |
|-----|---------|
| #38 | φ 0.12  |
| #40 | φ 0.09  |
| #42 | φ 0.075 |

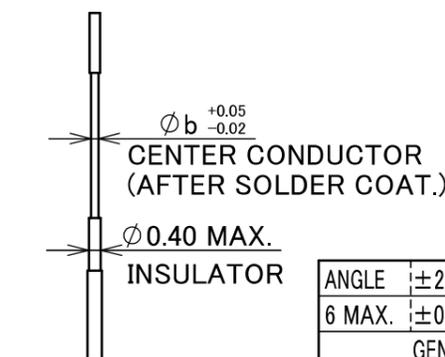
CHARACTERISTIC IMPEDANCE UN-MACHING MICRO-COAXIAL CABLE

|     | a      |
|-----|--------|
| #36 | φ 0.15 |

MICRO-COAXIAL CABLE #36 : NOT RECOMMENDED FOR HIGH SPEED SIGNAL TRANSFAER



RECOMMENDED DISCRETE WIRE DIMENSION



DISCRETE WIRE (AWG #36,34)

DISCRETE WIRE DIMENSION

|     | b       |
|-----|---------|
| #34 | φ 0.192 |
| #36 | φ 0.15  |

|                    |        |                |                  |  |                    |               |  |  |              |
|--------------------|--------|----------------|------------------|--|--------------------|---------------|--|--|--------------|
| ANGLE              | ±2°    | 6 OVER 30 MAX. | ±0.3             | PROJECTION<br>⊕  | SERIES No.<br>R9R3 | CUSTOMER COPY |  |  |              |
|                    | 6 MAX. | ±0.2           | 30 OVER 120 MAX. |  |                    |               |  |  | ±0.5         |
| GENERAL TOLERANCE. |        |                |                  | TITLE<br>CABLINER <sup>®</sup> -SS<br>PLUG<br>FOR CABLE ASSEMBLY | SCALE<br>5:1       | I-PEX         |  |  |              |
| DWG.               | DATE   |                |                  |  |                    |               |  |  | UNIT<br>mm   |
| CHK.               |        |                |                  |  |                    |               |  |  | SIZE<br>A3   |
| APP.               |        |                |                  |  |                    |               |  |  | SHEET<br>3/3 |
|                    |        |                |                  | DWG. No.   | 20380              |               |  |  |              |