

# MATERIAL DECLARATION



|                 |                    |     |     |
|-----------------|--------------------|-----|-----|
| Material Number | 6639S              |     |     |
| Product Line    | Sensors & Controls |     |     |
| Compliance Date | 5/14/2024          |     |     |
| RoHS Compliant  | YES                | MSL | N/A |

| No. | Construction Element(subpart) | Homogeneous Material | Material weight [g] | Homogeneous Material      | CASRN         | Materials Mass % | Material Mass % of total unit wt. | Subpart mass of total wt. (%) |
|-----|-------------------------------|----------------------|---------------------|---------------------------|---------------|------------------|-----------------------------------|-------------------------------|
|     |                               |                      |                     | Substances                | if applicable |                  |                                   |                               |
| 1   | Hex Nut                       | Brass C260           | 0.0079              | Copper                    | 7440-50-8     | 70               | 0.026                             | 0.04                          |
|     |                               |                      |                     | Zinc                      | 7440-66-6     | 30               | 0.0110                            |                               |
|     |                               | Plating              | 0.0001              | Nickel                    | 7440-02-0     | 100              | 0.04                              |                               |
| 2   | Lockwasher                    | Stainless Steel 304  | 0.0490              | Carbon                    | 7440-44-0     | 0.18             | 0.0004                            | 0.23                          |
|     |                               |                      |                     | Manganese                 | 7439-96-5     | 2                | 0.005                             |                               |
|     |                               |                      |                     | Phosphorus                | 7723-14-0     | 0.045            | 0.00010                           |                               |
|     |                               |                      |                     | Sulfur                    | 7704-34-9     | 0.03             | 0.00007                           |                               |
|     |                               |                      |                     | Silicon                   | 7440-21-3     | 0.75             | 0.002                             |                               |
|     |                               |                      |                     | Chromium                  | 7440-47-3     | 17               | 0.04                              |                               |
|     |                               |                      |                     | Nickel                    | 7440-02-0     | 8                | 0.02                              |                               |
|     |                               |                      |                     | Iron                      | 7439-89-6     | 71.995           | 0.16                              |                               |
|     |                               | Plating              | 0.0010              | Nickel                    | 7440-02-0     | 100              | 0.23                              |                               |
| 3   | Terminal                      | Brass C360           | 0.1250              | Copper                    | 7440-50-8     | 61.5             | 0.023                             | 0.58                          |
|     |                               |                      |                     | Zinc                      | 7440-66-6     | 35.4             | 0.21                              |                               |
|     |                               |                      |                     | Lead                      | 7439-92-2     | 3.1              | 0.02                              |                               |
|     |                               | Under Plating        | 0.000057            | Nickel                    | 7440-02-0     | 100              | 0.0003                            |                               |
|     |                               | Finish Plating       | 0.000057            | Gold                      | 7440-57-5     | 100              | 0.0003                            |                               |
| 4   | Cover Molded                  | RX1366FR-P Blue      | 4.504               | Diallyl Phthalate Polymer | 25053-15-0    | 36.5             | 7.64                              | 20.93                         |

# MATERIAL DECLARATION



|    |                 |                        |          |                                       |             |       |           |       |
|----|-----------------|------------------------|----------|---------------------------------------|-------------|-------|-----------|-------|
|    |                 |                        |          | Polyester Resin                       | 68604-67-1  | 2     | 0.42      |       |
|    |                 |                        |          | Peroxide, bis(1-methyl-1-phenylethyl) | 80-43-3     | 1     | 0.21      |       |
|    |                 |                        |          | Calcium silicate                      | 13983-17-0  | 7.5   | 1.57      |       |
|    |                 |                        |          | Amorphous silica                      | 61790-53-2  | 1.5   | 0.31      |       |
|    |                 |                        |          | Glass Fiber                           | 65997-17-3  | 40    | 8.37      |       |
|    |                 |                        |          | Alumina trihydrate                    | 21645-51-2  | 2.5   | 0.52      |       |
|    |                 |                        |          | Calcium stearate                      | 1592-23-0   | 1     | 0.21      |       |
|    |                 |                        |          | Antimony trioxide                     | 1309-64-4   | 3     | 0.63      |       |
|    |                 |                        |          | Bis(tetrabromophthalimido)ethane      | 32588-76-4  | 5     | 1.05      |       |
| 5  | Terminal x 2    | Brass C360             | 0.25     | Copper                                | 7440-50-8   | 61.5  | 0.71      | 1.16  |
|    |                 |                        |          | Zinc                                  | 7440-66-6   | 35.4  | 0.4112    |       |
|    |                 |                        |          | Lead                                  | 7439-92-2   | 3.1   | 0.0360    |       |
|    |                 | Under Plating          | 0.000114 | Nickel                                | 7440-02-0   | 100   | 0.0005    |       |
|    |                 | Finish Plating         | 0.000114 | Gold                                  | 7440-57-5   | 100   | 0.0005    |       |
| 9  | Ink             | Conductive Plastic Ink | 0.07     | Phenolic resin                        | 9039-25-2   | 0.67  | 0.002     | 0.33  |
|    |                 |                        |          | Teflon                                | 9002-84-0   | 0.01  | 0.00003   |       |
|    |                 |                        |          | Fumed silica                          | 112945-52-5 | 0.01  | 0.00003   |       |
|    |                 |                        |          | Barium sulfate                        | 7727-43-7   | 0.17  | 0.0006    |       |
|    |                 |                        |          | Titanium dioxide                      | 13463-67-7  | 0.05  | 0.0002    |       |
|    |                 |                        |          | Carbon black                          | 1333-86-4   | 0.09  | 0.0003    |       |
| 10 | Termination Ink | Termination Ink        | 0.01     | Phenolic resin                        | 9039-25-2   | 0.13  | 0.000060  | 0.046 |
|    |                 |                        |          | Silver                                | 7440-22-4   | 0.855 | 0.00040   |       |
|    |                 |                        |          | Graphite                              | 7782-42-5   | 0.01  | 0.0000046 |       |

# MATERIAL DECLARATION



|            |                |                        |        |                |             |       |          |          |
|------------|----------------|------------------------|--------|----------------|-------------|-------|----------|----------|
| 11         | Dielectric Ink | Dielectric Ink         | 0.005  | DAIP resin     | 1087-21-4   | 0.71  | 0.000    | 0.02     |
|            |                |                        |        | Barium sulfate | 7727-43-7   | 0.28  | 0.000    |          |
|            |                |                        |        | Pigment        | 84632-65-5  | 0.01  | 0.000    |          |
| 12         | Bushing        | Brass C360             | 4.7923 | Copper         | 7440-50-8   | 61.5  | 13.69398 | 22.26663 |
|            |                |                        |        | Zinc           | 7440-66-6   | 35.4  | 7.88239  |          |
|            |                |                        |        | Lead           | 7439-92-2   | 3.1   | 0.69027  |          |
|            |                | Plating                | 0.0001 | Nickel         | 7440-02-0   | 100   | 0.00046  |          |
| 15         | Contact Spring | Paliney #6             | 0.0236 | Palladium      | 7440-05-3   | 39.8  | 0.04     | 0.11     |
|            |                |                        |        | Silver         | 7440-22-4   | 33.9  | 0.04     |          |
|            |                |                        |        | Copper         | 7440-50-8   | 24.2  | 0.027    |          |
|            |                |                        |        | Platinum       | 7440-06-4   | 0.5   | 0.0005   |          |
|            |                |                        |        | Nickel         | 7440-02-0   | 1.59  | 0.002    |          |
|            |                |                        |        | Zinc           | 7440-66-6   | 0.01  | 0.000011 |          |
| 16         | Ink            | Conductive Plastic Ink | 0.02   | Phenolic resin | 9039-25-2   | 0.38  | 0.000    | 0.09     |
|            |                |                        |        | Fumed Silica   | 112945-52-5 | 0.01  | 0.00001  |          |
|            |                |                        |        | Carbon black   | 1333-86-4   | 0.11  | 0.0001   |          |
|            |                |                        |        | Silver         | 7440-22-4   | 0.5   | 0.0005   |          |
| 17         | Shaft          | Stainless Steel 303    | 6.85   | Carbon         | 7440-44-0   | 0.15  | 0.0477   | 31.83    |
|            |                |                        |        | Manganese      | 7439-96-5   | 2     | 0.637    |          |
|            |                |                        |        | Phosphorus     | 7723-14-0   | 0.20  | 0.0637   |          |
|            |                |                        |        | Sulfur         | 7704-34-9   | 0.15  | 0.04774  |          |
|            |                |                        |        | Silicon        | 7440-21-3   | 0.90  | 0.286    |          |
|            |                |                        |        | Chromium       | 7440-47-3   | 18.00 | 5.729    |          |
|            |                |                        |        | Nickel         | 7440-02-0   | 9.00  | 0.004    |          |
|            |                |                        |        | Iron           | 7439-89-6   | 69.00 | 0.029    |          |
| Molybdenum | 7439-98-7      | 0.60                   |        |                |             |       |          |          |
| 18         | Retaining Ring | Stainless Steel 420    | 0.009  | Carbon         | 7440-44-0   | 0.15  | 0.00006  | 0.04     |

# MATERIAL DECLARATION



|    |         |                            |         |   |            |       |         |       |
|----|---------|----------------------------|---------|---|------------|-------|---------|-------|
|    |         |                            |         | Silicon                                 | 7440-21-3  | 1.00  | 0.0004  |       |
|    |         |                            |         | Manganese                               | 7439-96-5  | 1.00  | 0.0004  |       |
|    |         |                            |         | Phosphorus                              | 7723-14-0  | 0.04  | 0.00002 |       |
|    |         |                            |         | Sulfur                                  | 7704-34-9  | 0.03  | 0.00001 |       |
|    |         |                            |         | Chromium                                | 7440-47-3  | 14.00 | 0.006   |       |
|    |         |                            |         | Iron                                    | 7439-89-6  | 83.78 | 0.035   |       |
| 20 | Housing | ShinKong compound (Blue)   | 3.52    | PBT                                     | 30965-26-5 | 49    | 8.014   | 16.36 |
|    |         |                            |         | Glass fiber                             | 65997-17-3 | 35    | 5.724   |       |
|    |         |                            |         | Brominated epoxy resin                  | 68928-70-1 | 10    | 1.636   |       |
|    |         |                            |         | Antimony trioxide                       | 1309-64-4  | 6     | 0.981   |       |
| 21 | Epoxy   | BCC-39-22 Conductive Epoxy | 0.015   | Biphenyl A Polyglycidyl Ether           | 25068-38-6 | 0.27  | 0.0002  | 0.07  |
|    |         |                            |         | Butyl Glydicyl Ether                    | 2426-08-6  | 0.09  | 0.0001  |       |
|    |         |                            |         | Silver                                  | 7440-22-4  | 0.64  | 0.000   |       |
| 22 | Rotor   | GS-51 Nylatron             | 1.27    | Nylon 6.6 (polyhexamethylene adipamide) | 32131-17-2 | 0.66  | 0.039   | 5.90  |
|    |         |                            |         | Glass Fiber                             | 65997-17-3 | 0.32  | 0.019   |       |
|    |         |                            |         | Molybdenum disulfide                    | 1317-33-5  | 0.02  | 0.001   |       |
|    |         | Total weight               | 21.5223 |   |            |       |         |       |

This Document was updated on: **22024/05/14**

### Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.