

# MATERIAL DECLARATION SHEET



|                 |                     |     |   |  |
|-----------------|---------------------|-----|---|--|
| Material Number | PVG5 (250Ω to 25kΩ) |     |   |  |
| Product Line    | Trimmer             |     |   |  |
| Compliance Date | 3-1-2005            |     |   |  |
| RoHS Compliant  | Yes                 | MSL | 1 |  |

| No. | Construction Element(subpart) | Homogeneous Material | Material weight [g] | Homogeneous Material\ Substances | CASRN if applicable | Materials Mass % | Material Mass % of total unit wt. | Subpart mass of total wt. (%) |
|-----|-------------------------------|----------------------|---------------------|----------------------------------|---------------------|------------------|-----------------------------------|-------------------------------|
| 1   | Contact Spring                | Ni/Ag                | 0.002               | Nickel                           | 7440-02-0           | 18               | 0.1889                            | 1.0493                        |
|     |                               |                      |                     | Copper                           | 7440-50-8           | 55               | 0.5771                            |                               |
|     |                               |                      |                     | Zinc                             | 7440-66-6           | 27               | 0.2833                            |                               |
| 2   | Housing                       | PEEK                 | 0.071               | Polyetheretherketone             | 31694-16-3          | 70               | 26.0756                           | 37.2508                       |
|     |                               |                      |                     | Glass Fiber                      | 65997-17-3          | 30               | 11.1752                           |                               |
| 3   | Rotor                         | PA9T                 | 0.008               | PA 9T                            | 169284-22-4         | 43               | 1.8048                            | 4.1973                        |
|     |                               |                      |                     | brominated polystyrene           | 88497-56-7          | 23               | 0.9654                            |                               |
|     |                               |                      |                     | glass fiber                      | 65997-17-3          | 34               | 1.4271                            |                               |
| 4   | Potting                       | Epoxy                | 0.029               | Cycloaliphatic epoxide           | Trade Secret        | 40               | 6.0860                            | 15.2151                       |
|     |                               |                      |                     | Polyetherpolyol resins           | 39072-02-1          | 15               | 2.2823                            |                               |
|     |                               |                      |                     | Silicon dioxide                  | 60676-82-0          | 25               | 3.8038                            |                               |
|     |                               |                      |                     | Hydrated alumina                 | 21645-51-2          | 20               | 3.0430                            |                               |
| 5   | Shaft                         | Brass                | 0.012               | Copper                           | 7440-50-8           | 61.5             | 3.8720                            | 6.2959                        |
|     |                               |                      |                     | Zinc                             | 7440-66-6           | 35.4             | 2.2288                            |                               |
|     |                               |                      |                     | Lead                             | 7439-92-1           | 3.1              | 0.1952                            |                               |
| 6   | Substrate                     | Alumina              | 0.049               | Aluminum Oxide                   | 1344-28-1           | 96               | 24.6800                           | 25.7083                       |
|     |                               |                      |                     | Silicon dioxide                  | 7631-86-9           | 2                | 0.5142                            |                               |
|     |                               |                      |                     | Magnesium oxide                  | 1309-48-4           | 1                | 0.2571                            |                               |
|     |                               |                      |                     | Calcium oxide                    | 1305-78-8           | 1                | 0.2571                            |                               |

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|    |                        |              |               |                       |            |        |        |        |
|----|------------------------|--------------|---------------|-----------------------|------------|--------|--------|--------|
| 7  | Termination Ink Top    | Ink          | 0.001         | Silver                | 7440-22-4  | 63     | 0.3305 | 1.0493 |
|    |                        |              |               | palladium             | 7440-05-3  | 25     | 0.1312 |        |
|    |                        |              |               | bismuth trioxide      | 1304-76-3  | 9      | 0.0472 |        |
|    |                        |              |               | copper oxide          | 1317-39-1  | 1      | 0.0052 |        |
|    |                        |              |               | boron                 | 7440-42-8  | 1      | 0.0052 |        |
|    |                        |              |               | barium                | 7440-39-3  | 1      | 0.0052 |        |
| 8  | Termination Ink Bottom | Ink          | 0.001         | Silver                | 7440-22-4  | 93.1   | 0.4885 |        |
|    |                        |              |               | palladium             | 7440-05-3  | 3.1    | 0.0163 |        |
|    |                        |              |               | copper oxide          | 1317-39-1  | 1.2    | 0.0063 |        |
|    |                        |              |               | glass w/o declarables | 65997-17-3 | 2      | 0.0105 |        |
|    |                        |              |               | barium                | 7440-39-3  | 0.3    | 0.0016 |        |
|    |                        |              |               | boron                 | 7440-42-8  | 0.3    | 0.0016 |        |
| 9  | Resistive Ink          | Ink          | 0.0015        | Silver                | 7440-22-4  | 27.5   | 0.2164 | 0.7870 |
|    |                        |              |               | Boron                 | 7440-42-8  | 16     | 0.1259 |        |
|    |                        |              |               | Silicon               | 7440-21-3  | 16     | 0.1259 |        |
|    |                        |              |               | Barium carbonate      | 513-77-9   | 7      | 0.0551 |        |
|    |                        |              |               | Calcium               | 7440-70-2  | 7      | 0.0551 |        |
|    |                        |              |               | Ruthenium dioxide     | 12036-10-1 | 16     | 0.1259 |        |
|    |                        |              |               | Titanium dioxide      | 1317-70-0  | 0.2    | 0.0016 |        |
|    |                        |              |               | Magnesium carbonate   | 39409-82-0 | 1.1    | 0.0087 |        |
|    |                        |              |               | Copper oxide          | 1317-39-1  | 1.1    | 0.0087 |        |
|    |                        |              |               | Manganese             | 7439-96-5  | 1.1    | 0.0087 |        |
|    |                        |              |               | Aluminum              | 7429-90-5  | 7      | 0.0551 |        |
| 10 | Terminals              | Copper       | 0.015         | Copper                | 7440-50-8  | 99.999 | 7.8698 | 7.8699 |
|    |                        |              |               | Oxygen                | 7782-44-7  | 0.001  | 0.0001 |        |
| 11 | Coating                | Solder       | 0.001         | Tin                   | 7440-31-5  | 100    | 0.5247 | 0.5247 |
| 12 | Lubricant              | Lubricant    | 0.0001        | Polydimethylsiloxane  | 63148-62-9 | 58     | 0.0304 | 0.0525 |
|    |                        |              |               | Dimethyl siloxane     | 70131-67-8 | 9.5    | 0.0050 |        |
|    |                        |              |               | Silica, amorphous     | 7631-86-9  | 12.5   | 0.0066 |        |
|    |                        |              |               | Siloxane/silicones    | 63148-56-1 | 14     | 0.0073 |        |
|    |                        |              |               | Tetrafluoroethane     | 9002-84-0  | 6      | 0.0031 |        |
|    |                        | Total weight | <b>0.1906</b> |                       |            |        |        |        |

This Document was updated on: 11/1/2023

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## Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS exemptions: Brass shaft may contain lead – RoHS exemption 6c – copper alloy containing up to 4% lead by weight.