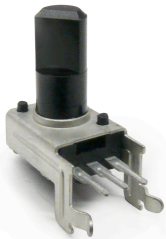


# MATERIAL DECLARATION



|                 |                 |     |     |   |
|-----------------|-----------------|-----|-----|---|
| Material #      | PTV09A-5        |     |     |  |
| Product Line    | Potentiometer   |     |     |   |
| Compliance Date | Since Inception |     |     |   |
| RoHS Compliant  | Yes             | MSL | N/A |   |

| No. | Construction Element (subpart) | Homogeneous Material    | Material weight [g] | Homogeneous Materials/ Substances | CASRN<br>If applicable | Materials Mass % | Material Mass % of total unit wt. | Subpart mass of total wt. [%] |
|-----|--------------------------------|-------------------------|---------------------|-----------------------------------|------------------------|------------------|-----------------------------------|-------------------------------|
| 1   | Shaft                          | PC                      | 0.75                | Polycarbonate                     | 25037-45-0             | 100              | 28.902                            | 28.902                        |
| 2   | Element                        | Bakelite                | 0.2                 | Silica fused                      | 60676-86-0             | 68               | 5.241                             | 7.707                         |
|     |                                |                         |                     | Epoxy cresol novolac              | 39690-82-2             | 20               | 1.541                             |                               |
|     |                                |                         |                     | Phenol novolac                    | 9003-35-4              | 7                | 0.54                              |                               |
|     |                                |                         |                     | Antimony trioxide                 | 1309-64-4              | 3                | 0.231                             |                               |
|     |                                |                         |                     | Brominated epoxy black            | 40039-93-8             | 2                | 0.154                             |                               |
| 3   | Housing                        | PBT                     | 0.2                 | Glass                             | 65997-17-3             | 30               | 2.312                             | 7.707                         |
|     |                                |                         |                     | Polybutylene terephthalate        | 30965-26-5             | 65               | 5.01                              |                               |
|     |                                |                         |                     | Antimony Oxide                    | 1309-64-4              | 5                | 0.385                             |                               |
| 4   | Wiper                          | Copper(Without plating) | 0.1                 | Copper                            | 7440-50-8              | 91.68            | 3.533                             | 3.854                         |
|     |                                |                         |                     | Tin                               | 7440-31-5              | 8.167            | 0.315                             |                               |
|     |                                |                         |                     | Phosphorus                        | 7723-14-0              | 0.153            | 0.006                             |                               |

# MATERIAL DECLARATION



|   |           |              |        |  |                        |     |        |        |
|---|-----------|--------------|--------|--|------------------------|-----|--------|--------|
| 5 | Terminals | SPCC-SD      | 0.09×3 | Carbon   | 7440-44-0              | 0.5 | 0.052  | 10.404 |
|   |           |              |        | Manganese  | 7439-96-5              | 6   | 0.624  |        |
|   |           |              |        | Phosphorus   | 7723-14-0              | 5   | 0.52   |        |
|   |           |              |        | Iron   | 7439-89-6              | 88  | 9.156  |        |
|   |           |              |        | Silicon  | 7440-21-3              | 0.5 | 0.052  |        |
|   |           | Plating      | N/A    | Cu(Inner layer,thickness:1-3um)<br>Sn(Outer layer,thickness:2-3um) | 7440-50-8<br>7440-31-5 | 100 | N/A    |        |
| 6 | Bracket   | SPCC-SD      | 0.8    | Carbon   | 7440-44-0              | 0.5 | 0.154  | 30.829 |
|   |           |              |        | Manganese  | 7439-96-5              | 6   | 1.85   |        |
|   |           |              |        | Phosphorus   | 7723-14-0              | 5   | 1.541  |        |
|   |           |              |        | Iron   | 7439-89-6              | 88  | 27.13  |        |
|   |           |              |        | Silicon  | 7440-21-3              | 0.5 | 0.154  |        |
|   |           | Plating      | N/A    | Cu(Inner layer,thickness:1-3um)<br>Sn(Outer layer,thickness:2-3um) | 7440-50-8<br>7440-31-5 | 100 | N/A    |        |
| 7 | Bushing   | POM          | 0.27   | Polyoxymethylene   | 30846-29-8             | 100 | 10.404 | 10.404 |
| 8 | Lube      | Polysiloxane | 0.005  | Polysiloxane   | 63148-62-9             | 100 | 0.193  | 0.193  |
|   |           | Total weight | 2.595  |  |                        |     |        |        |

**This Document was updated on: Aug 06, 2013**

**The weight was measured by model PTV09A-5030U-B103.**