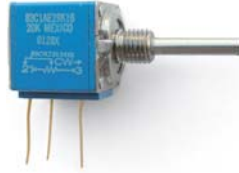


# MATERIAL DECLARATION SHEET



|                 |                         |     |     |   |
|-----------------|-------------------------|-----|-----|---|
| Material Number | 83-L (Single Cup)       |     |     |  |
| Product Line    | Precision Potentiometer |     |     |   |
| Compliance Date | December 31, 2005       |     |     |   |
| RoHS Compliant  | Yes                     | MSL | N/A |   |

| 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    | Rotor Driver                   | Zinc                 | 0.968               | Zinc                             | 7440-66-6           | 95               | 4.919                             | 5.178                         |
|      |                                |                      |                     | Aluminum                         | 7429-90-5           | 4                | 0.207                             |                               |
|      |                                |                      |                     | Copper                           | 7440-50-8           | 1                | 0.052                             |                               |
| 2    | Shaft                          | Brass                | 6.499               | Copper                           | 7440-50-8           | 61.5             | 21.38                             | 34.765                        |
|      |                                |                      |                     | Zinc                             | 7440-66-6           | 35.5             | 12.34                             |                               |
|      |                                | Plating              | 0.00593             | Nickel                           | 7440-02-0           | 100              | 0.032                             | 0.032                         |
| 3    | Rivet X 4                      | Aluminum             | 0.68                | Aluminum                         | 7429-90-5           | 95.15            | 3.461                             | 3.638                         |
|      |                                |                      |                     | Chromium                         | 7440-47-3           | 0.1              | 0.004                             |                               |
|      |                                |                      |                     | Copper                           | 7440-50-8           | 2.5              | 0.091                             |                               |
|      |                                |                      |                     | Iron                             | 7439-89-6           | 0.7              | 0.025                             |                               |
|      |                                |                      |                     | Magnesium                        | 7439-98-5           | 0.3              | 0.011                             |                               |
|      |                                |                      |                     | Manganese                        | 7439-96-5           | 0.2              | 0.007                             |                               |
|      |                                |                      |                     | Silicon                          | 7440-21-3           | 0.8              | 0.029                             |                               |
| Zinc | 7440-66-6                      | 0.25                 | 0.009               |                                  |                     |                  |                                   |                               |
| 4    | Lube                           | Grease               | 0.00865             | Polysiloxane                     |                     | 79               | 0.037                             | 0.046                         |
|      |                                |                      |                     | Lithium Stearate                 | 4485-12-5           | 20               | 0.009                             |                               |
|      |                                |                      |                     | Lithium Hydroxide                | 1310-65-2           | 1                | 0.001                             |                               |

# MATERIAL DECLARATION SHEET



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|   |               |                  |       |                           |           |       |        |       |
|---|---------------|------------------|-------|---------------------------|-----------|-------|--------|-------|
| 5 | Bushing       | Aluminum         | 0.9   | Aluminum                  | 7429-90-5 | 93.7  | 4.511  | 4.814 |
|   |               |                  |       | Copper                    | 7440-50-8 | 5.5   | 0.265  |       |
|   |               |                  |       | Bismuth                   | 7440-69-9 | 0.4   | 0.019  |       |
|   |               |                  |       | Lead                      | 7439-92-1 | 0.4   | 0.019  |       |
| 6 | Rear Cover    | Stainless Steel  | 0.92  | Carbon                    | 7440-44-0 | 0.013 | 0.0001 | 1.539 |
|   |               |                  |       | Manganese                 | 7435-96-5 | 1.84  | 0.091  |       |
|   |               |                  |       | Phosphorus                | 7723-14-0 | 0.03  | 0.002  |       |
|   |               |                  |       | Sulfur                    | 7704-34-9 | 0.002 | 0.0001 |       |
|   |               |                  |       | Silicon                   | 7440-21-3 | 0.1   | 0.005  |       |
|   |               |                  |       | Chromium                  | 7440-47-3 | 18.61 | 0.916  |       |
|   |               |                  |       | Nickel                    | 7440-02-0 | 9.9   | 0.487  |       |
|   |               |                  |       | Molybdenum                | 7439-92-1 | 0.42  | 0.021  |       |
|   |               |                  |       | Copper                    | 7440-50-8 | 0.37  | 0.018  |       |
|   |               |                  |       | Nitrogen                  | 7727-37-9 | 0.05  | 0.003  |       |
|   |               |                  |       | Iron                      | 7439-89-6 | 68.68 | 3.379  |       |
| 7 | Front Cover   | Stainless Steel  | 0.716 | Carbon                    | 7440-44-0 | 0.15  | 0.006  | 3.83  |
|   |               |                  |       | Manganese                 | 7435-96-5 | 2     | 0.077  |       |
|   |               |                  |       | Silicon                   | 7440-21-3 | 1     | 0.038  |       |
|   |               |                  |       | Chromium                  | 7440-47-3 | 18    | 0.689  |       |
|   |               |                  |       | Nickel                    | 7440-02-0 | 9     | 0.345  |       |
|   |               |                  |       | Iron                      | 7439-89-6 | 69.85 | 2.676  |       |
| 8 | Washer        | PTFE             | 0.007 | Polytetrafluoroathylene   | 9002-84-0 | 15    | 0.006  | 0.038 |
|   |               |                  |       | 1-Dichloro-1-Fluoroathane | 1717-00-6 | 85    | 0.032  |       |
| 9 | Spring Washer | Beryllium Copper | 0.031 | Copper                    | 7440-50-8 | 98.1  | 0.163  | 0.166 |
|   |               |                  |       | Silicon                   | 7440-21-3 | 0.2   | 0.0003 |       |
|   |               |                  |       | Beryllium                 | 7440-41-7 | 1.5   | 0.003  |       |
|   |               |                  |       | Aluminum                  | 7429-90-5 | 0.2   | 0.0003 |       |

# MATERIAL DECLARATION SHEET



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|         |                   |               |           |                              |            |       |        |        |
|---------|-------------------|---------------|-----------|------------------------------|------------|-------|--------|--------|
| 10      | Lube              | Lube          | 0.00865   | Polysiloxane                 |            | 100   | 0.046  | 0.046  |
| 11      | Mandrel Wire      | Copper        | 2.252     | Copper                       | 7440-50-8  | 100   | 12.047 | 12.047 |
| 12      | Resistive Wire    | Alloy         | 0.5783    | Nickel                       | 7440-02-0  | 75    | 2.32   | 3.094  |
|         |                   |               |           | Chromium                     | 7440-47-3  | 21    | 0.649  |        |
|         |                   |               |           | Other (Al, Si, Cu, Co, Mn)   |            | 4     | 0.124  |        |
| 13      | Body              | PBT           | 2.25      | Glass                        | 65997-17-3 | 30    | 3.611  | 12.036 |
|         |                   |               |           | Antimony Oxide               | 1309-64-4  | 2.5   | 0.301  |        |
|         |                   |               |           | Antimony Compounds           | 7440-36-0  | 2.5   | 0.301  |        |
|         |                   |               |           | Poly(butylene terephthalate) | 30965-26-5 | 65    | 7.823  |        |
| 14      | T.R. Terminal X 2 | Nickel Silver | 0.196     | Copper                       | 7440-50-8  | 65    | 0.681  | 1.049  |
|         |                   |               |           | Nickel                       | 7440-02-0  | 18    | 0.189  |        |
|         |                   |               |           | Zinc                         | 7440-66-6  | 17    | 0.178  |        |
|         |                   | Inlay         | 0.004292  | Silver                       | 7440-22-4  | 56    | 0.013  | 0.023  |
|         |                   |               |           | Copper                       | 7440-50-8  | 22    | 0.005  |        |
|         |                   |               |           | Zinc                         | 7440-66-6  | 17    | 0.004  |        |
|         |                   |               |           | Tin                          | 7440-31-5  | 5     | 0.001  |        |
| Plating | 0.002146          | Gold          | 7440-57-5 | 100                          | 0.011      | 0.011 |        |        |
| 15      | Front Lid         | PBT           | 0.5       | Glass                        | 65997-17-3 | 30    | 0.802  | 2.675  |
|         |                   |               |           | Antimony Oxide               | 1309-64-4  | 2.5   | 0.067  |        |
|         |                   |               |           | Antimony Compounds           | 7440-36-0  | 2.5   | 0.067  |        |
|         |                   |               |           | Poly(butylene terephthalate) | 30965-26-5 | 65    | 1.739  |        |
| 16      | Rear Lid          | PBT           | 0.45      | Glass                        | 65997-17-3 | 30    | 0.722  | 2.407  |
|         |                   |               |           | Antimony Oxide               | 1309-64-4  | 2.5   | 0.06   |        |
|         |                   |               |           | Antimony Compounds           | 7440-36-0  | 2.5   | 0.06   |        |
|         |                   |               |           | Poly(butylene terephthalate) | 30965-26-5 | 65    | 1.565  |        |
| 17      | Slider            | Nylon         | 0.2152    | Nylon 6/6                    | 32131-17-2 | 64    | 0.767  | 1.151  |
|         |                   |               |           | Glass Fibers                 | 65997-17-3 | 29    | 0.334  |        |
|         |                   |               |           | Polytetrafluoroethylene      | 9002-84-0  | 7     | 0.081  |        |

# MATERIAL DECLARATION SHEET



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|    |                |               |         |                              |            |     |        |       |
|----|----------------|---------------|---------|------------------------------|------------|-----|--------|-------|
| 18 | Contact Spring | Palmet        | 0.0104  | Palladium                    | 7440-05-3  | 35  | 0.019  | 0.056 |
|    |                |               |         | Silver                       | 7440-22-4  | 30  | 0.017  |       |
|    |                |               |         | Copper                       | 7440-50-8  | 14  | 0.008  |       |
|    |                |               |         | Gold                         | 7440-57-5  | 10  | 0.006  |       |
|    |                |               |         | Platinum                     | 7440-06-4  | 10  | 0.006  |       |
|    |                |               |         | Zinc (metal)                 | 7440-66-6  | 1   | 0.0006 |       |
| 19 | Collector Bar  | Nickel Silver | 0.0699  | Copper                       | 7440-50-8  | 65  | 0.243  | 0.374 |
|    |                |               |         | Nickel                       | 7440-02-0  | 18  | 0.067  |       |
|    |                |               |         | Zinc                         | 7440-66-6  | 17  | 0.064  |       |
|    |                | Plating       | 0.00034 | Nickel                       | 7440-02-0  | 100 | 0.002  | 0.002 |
|    |                | Plating       | 0.00034 | Gold                         | 7440-57-5  | 100 | 0.002  | 0.002 |
| 20 | Rotor          | PBT           | 1.344   | Glass                        | 65997-17-3 | 30  | 2.157  | 7.189 |
|    |                |               |         | Antimony Oxide               | 1309-64-4  | 2.5 | 0.179  |       |
|    |                |               |         | Antimony Compounds           | 7440-36-0  | 2.5 | 0.179  |       |
|    |                |               |         | Poly(butylene terephthalate) | 30965-26-5 | 65  | 4.673  |       |
| 21 | Wiper Terminal | Brass         | 0.0679  | Copper                       | 7440-50-8  | 70  | 0.254  | 0.363 |
|    |                |               |         | Zinc                         | 7440-66-6  | 30  | 0.109  |       |
|    |                | Plating       | 0.00028 | Nickel                       | 7440-02-0  | 100 | 0.001  | 0.001 |
|    |                | Plating       | 0.00028 | Gold                         | 7440-57-5  | 100 | 0.001  | 0.001 |
| 22 | Lube           | Lube          | 0.00865 | Chlorophenylmethyl Silicone  |            | 100 | 0.046  | 0.046 |
|    |                | Total weight  | 18.694  |                              |            |     |        |       |

**This Document was updated on:** May 24, 2006

**Important remarks:**

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