


MATERIAL DECLARATION SHEET



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|-----------------|-------------------------|-----|-----|---|
| Material Number | 3700S-L | | |  |
| Product Line | Precision Potentiometer | | | |
| Compliance Date | Feb 21, 2006 | | | |
| 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 | Mandrel Wire | Copper | 1.5 | Copper | 7440-50-8 | 100 | 17.798 | 17.798 |
| | | Coating | 0.00012 | Polyamide | | 100 | 0.0014 | 0.0014 |
| 2 | Resist Wire | Nickel Copper | 0.5783 | Nickel | 7440-02-0 | 47 | 3.225 | 6.862 |
| | | | | Copper | 7440-50-8 | 46.5 | 3.191 | |
| | | | | Iron | 7439-89-6 | 3 | 0.206 | |
| | | | | Manganese | 7439-96-5 | 3 | 0.206 | |
| | | | | Cobalt | 7440-48-4 | 0.5 | 0.034 | |
| 3 | Varnish | Polyester | 0.1093 | Phenolic Resin | | 100 | 1.297 | 1.297 |
| 4 | Housing | DAP | 1.75 | Antimony Trioxide | 1309-64-4 | 5 | 1.038 | 20.764 |
| | | | | Aluminum Hydroxide | 21645-51-2 | 20 | 4.153 | |
| | | | | Diallyl Phthalate | 25053-15-0 | 25 | 5.191 | |
| | | | | Glass Fiber | 65997-17-3 | 50 | 10.382 | |
| 5 | Tab X2 | Nickel | 0.002 | Nickel | 7440-02-0 | 100 | 0.024 | 2.280 |
| | | Inlay | 0.1922 | Silver | 7440-22-4 | 56 | 1.277 | |
| | | | | Copper | 7440-50-8 | 22 | 0.502 | |
| | | | | Zinc | 7440-66-6 | 17 | 0.388 | |
| | | | | Tin | 7440-31-5 | 5 | 0.114 | |
| 6 | T.R. Terminal X2 | Brass | 0.070 | Copper | 7440-50-8 | 98.05 | 0.814 | 0.831 |
| | | | | Cobalt | 7440-48-4 | 0.35 | 0.0029 | |
| | | | | Beryllium | 7440-41-7 | 1.6 | 0.013 | |
| | | Under Plating | 0.0065 | Nickel | 7440-02-0 | 100 | 0.077 | 0.077 |
| | | Finish Plating | 0.003 | Gold | 7440-57-5 | 100 | 0.036 | 0.036 |

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Reliable Electronic Solutions

| | | | | | | | | |
|----------------|----------------|-----------------|-----------|-------------------------|------------|-------|---------|--------|
| 7 | Rotor | Nylon | 0.45 | Base Resin | 26125-40-6 | 100 | 5.339. | 5.339 |
| 8 | Shaft | Stainless Steel | 1.45 | Carbon | 7440-44-0 | 0.15 | 0.0258 | 17.204 |
| | | | | Manganese | 7439-96-5 | 2 | 0.3441 | |
| | | | | Silicon | 7740-21-3 | 1 | 0.172 | |
| | | | | Chromium | 7740-47-3 | 19 | 3.269 | |
| | | | | Nickel | 7440-02-0 | 10 | 1.720 | |
| | | | | Iron | 7439-89-6 | 67.7 | 11.647 | |
| | | | | Sulfur | 7446-09-5 | 0.15 | 0.026 | |
| 9 | Collector Bar | Copper | 0.0125 | Copper | 7440-50-8 | 98.45 | 0.146 | 0.148 |
| | | | | Cobalt | 7440-48-4 | 0.35 | 0.001 | |
| | | | | Beryllium | 7440-41-7 | 2 | 0.003 | |
| | | Under Plating | 0.00001 | Nickel | 7440-02-0 | 100 | 0.0132 | 0.013 |
| Finish Plating | 0.00001 | Gold | 7440-57-5 | 100 | | | | |
| 10 | Slider | Nylon | 0.175 | Polyamide | 32131-17-2 | 89 | 1.848 | 2.076 |
| | | | | Proprietary Ingredients | | 11 | 0.228 | |
| 11 | Contact spring | Pamlet | 0.0105 | Copper | 7440-50-8 | 10 | 0.012 | 0.125 |
| | | | | Gold | 7440-57-5 | 10 | 0.0125 | |
| | | | | Platinum | 7440-06-4 | 10 | 0.012 | |
| | | | | Palladium | 7440-05-3 | 30 | 0.037 | |
| | | | | Silver | 7440-22-4 | 30 | 0.037 | |
| | | | | Zinc | 7440-66-6 | 10 | 0.01246 | |
| 12 | Pin | Stainless Steel | 0.001 | Carbon | 7440-44-0 | 0.15 | 0.00002 | 0.012 |
| | | | | Manganese | 7439-96-5 | 2 | 0.0002 | |
| | | | | Silicon | 7740-21-3 | 1 | 0.0001 | |
| | | | | Chromium | 7740-47-3 | 19 | 0.002 | |
| | | | | Nickel | 7440-02-0 | 10 | 0.001 | |
| | | | | Iron | 7439-89-6 | 52.85 | 0.006 | |
| | | | | Sulfur | 7446-09-5 | 15 | 0.00176 | |
| 13 | Cover | DAP | 0.8 | Antimony Trioxide | 1309-64-4 | 5 | 0.47461 | 9.492 |
| | | | | Aluminum Hydroxide | 21645-51-2 | 20 | 1.8984 | |
| | | | | Diallyl Phthalate | 25053-15-0 | 25 | 2.3730 | |

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| | | | | Glass Fiber | 65997-17-3 | 50 | 4.746 | |
| 14 | Lid | DAP | 0.6 | Antimony Trioxide | 1309-64-4 | 5 | 0.356 | 7.119 |
| | | | | Aluminum Hydroxide | 21645-51-2 | 20 | 1.424 | |
| | | | | Diallyl Phthalate | 25053-15-0 | 25 | 1.780 | |
| | | | | Glass Fiber | 65997-17-3 | 50 | 3.560 | |
| 15 | Bushing | Aluminum | 0.6 | Silicon | 7440-21-3 | 0.7 | 0.0498 | 7.119 |
| | | | | Iron | 7439-89-6 | 0.34 | 0.024 | |
| | | | | Copper | 7440-50-8 | 0.34 | 0.024 | |
| | | | | Manganese | 7439-96-3 | 0.09 | 0.006 | |
| | | | | Magnesium | 7439-98-5 | 0.9 | 0.064 | |
| | | | | Chromium | 7440-47-3 | 0.09 | 0.006 | |
| | | | | Zinc | 7440-66-6 | 0.05 | 0.0036 | |
| | | | | Titanium | 7440-32-6 | 0.02 | 0.001 | |
| | | | | Aluminum | 7429-90-5 | 97.47 | 6.939 | |
| 16 | Wiper Terminal | Brass | 0.031 | Copper | 7440-50-8 | 61.5 | 0.226 | 0.368 |
| | | | | Lead | 7439-92-1 | 3 | 0.011 | |
| | | | | Zinc | 7440-66-6 | 35.5 | 0.1306 | |
| | | Under Plating | 0.002 | Nickel | 7440-02-0 | 100 | 0.0244 | 0.0004 |
| | | Finish Plating | 0.00003 | Gold | 7440-57-5 | | | |
| 17 | Washer | PTFE | 0.002 | Polytetrafluoroethylene | 9002-84-0 | 15 | 0.0036 | 0.024 |
| | | | | 1-Dichloro-1-Fluoroethane | 1717-00-6 | 85 | 0.020 | |
| 18 | Washer | PTFE | 0.004 | Polytetrafluoroethylene | 9002-84-0 | 15 | 0.007 | 0.047 |
| | | | | 1-Dichloro-1-Fluoroethane | 1717-00-6 | 85 | 0.0403 | |
| 19 | Lube Element | Grease | 0.005 | Decanoic acid, mixed esters with heptanoic acid, octanoic acid | 68130-53-0 | 54.4 | 0.032 | 0.059 |
| | | | | Lithium 12- hydroxystearate | 7620-77-1 | 5.7 | 0.003 | |
| | | | | Isohexadecyl-isoctadecanoate | 52006-45-8 | 33.7 | 0.020 | |

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|----|-----------------------|--------------|-------|--|------------|-------|-------|-------|
| | | | | Polyisobutylene | 9003-27-4 | 6.2 | 0.004 | |
| 20 | Lube Shaft | Grease | 0.021 | Siloxanes and Silicones, di-Me, di-Ph | 68083-14-7 | 68.95 | 0.172 | 0.249 |
| | | | | Lithium Stearate | 4485-12-5 | 25.37 | 0.063 | |
| | | | | Silane, dichlorodimethyl-, reaction products with silica | 68611-44-9 | 4.79 | 0.012 | |
| | | | | Diphenylamine | 122-39-4 | 0.89 | 0.002 | |
| 21 | Epoxy (Collector Bar) | Epoxy | 0.015 | Epoxy resin | 25085-99-8 | 49 | 0.087 | 0.178 |
| | | | | Antimony trioxide | 1309-64-4 | 11 | 0.020 | |
| | | | | Silicon dioxide | 7440-21-3 | 11 | 0.020 | |
| | | | | Aluminum dioxide | 1344-28-1 | 11 | 0.020 | |
| | | | | Kaolin clay | 1332-58-7 | 9 | 0.016 | |
| | | | | Magnesium alumino silicate | | 9 | 0.016 | |
| 22 | Epoxy (Seal) | Epoxy | 0.035 | Epoxy resin | 25085-99-8 | 61 | 0.253 | 0.415 |
| | | | | Silicon dioxide | 7440-21-3 | 23 | 0.096 | |
| | | | | Kaolin clay | 1332-58-7 | 16 | 0.066 | |
| | | Total weight | 8.428 | | | | | |

This Document was updated on: Aug 03, 2007

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS compliant – exemption 6c – lead in copper alloys