

MATERIAL DECLARATION SHEET



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|-----------------|-------------------------|-----|-----|
| Material Number | 3590S-2-L | | |
| Product Line | Precision Potentiometer | | |
| Compliance Date | May 31, 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 | Lube | Grease | 0.008 | Polysiloxane | | 100 | 0.037 | 0.037 |
| 2 | Mandrel | Copper | 1.006 | Copper | 7440-22-4 | 100 | 4.635 | 4.635 |
| | | Coating | 6.39E-05 | Polyamide | | 100 | 0.0003 | 0.0003 |
| 3 | Resist Wire | Metal | 0.2789 | Nickel | 7440-02-0 | 46 | 0.591 | 1.285 |
| | | | | Chromium | 7440-47-3 | 0.1 | 0.001 | |
| | | | | Manganese | 7439-96-5 | 0.8 | 0.010 | |
| | | | | Silicon | 7440-21-3 | 0.3 | 0.004 | |
| | | | | Carbon | 7440-44-0 | 0.05 | 0.0006 | |
| | | | | Phosphorus | 7723-14-0 | 0.025 | 0.0003 | |
| | | | | Sulfur | 7704-34-9 | 0.025 | 0.0003 | |
| | | | | Iron | 7439-98-7 | 52.7 | 0.677 | |
| 4 | Varnish | Polyester Phenolic Resin | 0.1093 | Unsaturated Polyester Resin and Phenol-formaldehyde Resin | | 100 | 0.504 | 0.504 |
| 5 | Housing | PBT | 3.064 | Glass | 65997-17-3 | 30 | 4.236 | 14.118 |
| | | | | Antimony Oxide | 1309-64-4 | 3 | 0.423 | |
| | | | | Antimony Compounds | 7440-36-0 | 3 | 0.423 | |
| | | | | Poly(butylene terephthalate) | 30965-26-5 | 64 | 9.036 | |

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|-----|--------------|----------------|---------|------------------------------|------------|--------|--------|--------|
| 6 | Terminal X 2 | Copper | 0.1206 | Copper | 7440-50-8 | 97.4 | 0.541 | 0.555 |
| | | | | Zinc | 7440-66-6 | 0.1 | 0.0006 | |
| | | | | Phosphorus | 7723-14-0 | 0.03 | 0.0002 | |
| | | | | Iron | 7439-98-7 | 2.4 | 0.013 | |
| | | Under Plating | 0.0024 | Copper | 7440-22-4 | 100 | 0.011 | 0.011 |
| | | Finish Plating | 0.00606 | Tin | 7440-31-5 | 100 | 0.028 | 0.028 |
| | | Inlay | 0.00126 | Silver | 7440-22-4 | 56 | 0.003 | 0.006 |
| | | | | Copper | 7440-50-8 | 22 | 0.001 | |
| | | | | Zinc | 7440-66-6 | 17 | 0.0009 | |
| Tin | 7440-31-5 | | | 5 | 0.0003 | | | |
| 7 | Cover | PBT | 1.3885 | Glass | 65997-17-3 | 30 | 1.919 | 6.398 |
| | | | | Antimony Oxide | 1309-64-4 | 3 | 0.192 | |
| | | | | Antimony Compounds | 7440-36-0 | 3 | 0.192 | |
| | | | | Poly(butylene terephthalate) | 30965-26-5 | 64 | 4.095 | |
| 8 | Lube | Grease | 0.008 | Fluorosilicone | | 100 | 0.037 | 0.037 |
| 9 | Lube | Grease | 0.008 | Chlorophenylmethyl Silicone | | 100 | 0.037 | 0.037 |
| 10 | Bushing | Zinc | 2.67 | Iron | 7439-98-7 | 0.075 | 0.009 | 12.303 |
| | | | | Copper | 7440-50-8 | 0.1 | 0.012 | |
| | | | | Magnesium | 7439-98-5 | 0.03 | 0.004 | |
| | | | | Tin | 7440-31-5 | 0.002 | 0.0002 | |
| | | | | Lead | 7439-92-1 | 0.004 | 0.0005 | |
| | | | | Aluminum | 7429-90-5 | 4 | 0.492 | |
| | | | | Cadmium | 7440-43-9 | 0.003 | 0.0003 | |
| | | | | Zinc | 7440-66-6 | 95.786 | 11.784 | |
| 11 | Rotor | PBT | 1.1115 | Glass | 65997-17-3 | 30 | 1.536 | 5.122 |
| | | | | Antimony Oxide | 1309-64-4 | 3 | 0.153 | |
| | | | | Antimony Compounds | 7440-36-0 | 3 | 0.153 | |
| | | | | Poly(butylene terephthalate) | 30965-26-5 | 64 | 3.278 | |

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|----|----------------|------------------|----------|---------------------------|------------|------|--------|--------|
| 12 | Shaft | Brass | 9.507 | Copper | 7440-50-8 | 61.5 | 26.941 | 43.807 |
| | | | | Lead | 7439-92-1 | 3 | 1.314 | |
| | | | | Zinc | 7440-66-6 | 35.5 | 15.551 | |
| | | Plating | 0.014 | Nickel | 7440-02-0 | 100 | 0.064 | 0.064 |
| 13 | Slider | Nylon | 0.11 | Nylon | 32131-17-2 | 60 | 0.304 | 0.507 |
| | | | | Glass | 65997-17-3 | 30 | 0.152 | |
| | | | | Polytetrafluoroethylene | 9002-84-0 | 10 | 0.051 | |
| 14 | Contact Spring | Pamlet | 0.0077 | Copper | 7440-50-8 | 16 | 0.005 | 0.035 |
| | | | | Nickel | 7440-02-0 | 1 | 0.0003 | |
| | | | | Palladium | 7440-05-3 | 1 | 0.0003 | |
| | | | | Platinum | 7440-06-4 | 44 | 0.015 | |
| | | | | Silver | 7440-22-4 | 38 | 0.013 | |
| 15 | Collector Bar | Beryllium Copper | 0.0275 | Copper | 7440-50-8 | 98.1 | 0.124 | 0.127 |
| | | | | Silicon | 7440-21-3 | 0.2 | 0.0002 | |
| | | | | Beryllium | 7440-41-7 | 1.5 | 0.002 | |
| | | | | Aluminum | 7429-90-5 | 0.2 | 0.0002 | |
| | | Under Plating | 0.004 | Nickel | 7440-02-0 | 100 | 0.018 | 0.018 |
| | | Finish Plating | 0.004 | Potassium Gold Cyanide | 13967-50-5 | 100 | 0.018 | 0.018 |
| 16 | Wiper Terminal | Brass | 1.95 | Copper | 7440-50-8 | 94.8 | 8.518 | 8.985 |
| | | | | Tin | 7440-31-5 | 5 | 0.449 | |
| | | | | Phosphorus | 7723-14-0 | 0.2 | 0.018 | |
| | | Under Plating | 0.000747 | Nickel | 7440-02-0 | 100 | 0.003 | 0.003 |
| | | Finish Plating | 0.001645 | Gold | 7440-57-5 | 100 | 0.008 | 0.008 |
| 17 | Washer 1 | PTFE | 0.0025 | Polytetrafluoroethylene | 9002-84-0 | 15 | 0.002 | 0.011 |
| | | | | 1-Dichloro-1-Fluoroethane | 1717-00-6 | 85 | 0.010 | |
| 18 | Washer 2 | PTFE | 0.0082 | Polytetrafluoroethylene | 9002-84-0 | 15 | 0.006 | 0.038 |
| | | | | 1-Dichloro-1-Fluoroethane | 1717-00-6 | 85 | 0.032 | |
| 19 | Retaining Ring | Stainless Steel | 0.082 | Chromium | 7440-47-3 | 14.5 | 0.055 | 0.095 |

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|----|---------|--------------|--------|------------------------------------|------------|-------|--------|-------|
| | | | | Nickel | 7440-02-0 | 7.5 | 0.028 | |
| | | | | Carbon | 7440-44-0 | 0.085 | 0.0003 | |
| | | | | Molybdenum | 7439-98-7 | 2 | 0.007 | |
| | | | | Aluminum | 7429-90-5 | 1 | 0.003 | |
| | | | | Iron | 7439-89-6 | 74.91 | 0.283 | |
| 20 | Epoxy 1 | Epoxy | 0.1276 | Bisphenol A Diglycidyl Ether Resin | 25068-38-6 | 50 | 0.294 | 0.588 |
| | | | | Silicon Dioxide | 7440-21-3 | 37 | 0.217 | |
| | | | | Aluminum Silicate Hydroxide | 1332-58-7 | 9 | 0.053 | |
| | | | | Proprietary Ingredients | | 4 | 0.023 | |
| 21 | Epoxy 2 | Epoxy | 0.0725 | Bisphenol A Diglycidyl Ether Resin | 25068-38-6 | 49 | 0.164 | 0.334 |
| | | | | Silicon Dioxide | 7440-21-3 | 17 | 0.057 | |
| | | | | Aluminum Silicate Hydroxide | 1332-58-7 | 17 | 0.057 | |
| | | | | Antimony Trioxide | 1309-64-4 | 17 | 0.057 | |
| | | Total weight | 21.701 | | | | | |

This Document was updated on: July 28, 2009

Important remarks:

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