


MATERIAL DECLARATION SHEET



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|-----------------|--------------------|-----|-----|---|
| Material Number | 3547S-1xE-xxxx | | |  |
| Product Line | Sensors & Controls | | | |
| Compliance Date | 2/12/2025 | | | |
| RoHs Compliant | Yes | MSL | N/A | |

| No. | Construction Element(subpart) | Homogeneous Material | Material weight [g] | Homogeneous Material | CASRN | Materials Mass % | Material Mass % of total unit wt. | Subpart mass of total wt. (%) |
|-----|-------------------------------|----------------------------------|---------------------|-----------------------|---------------|------------------|-----------------------------------|-------------------------------|
| | | | | Substances | if applicable | | | |
| 1 | Ball Bearing | Stainless Steel 400C Martensitic | 0.3000 | Chromium | 7440-47-3 | 13 | 0.127 | 0.98 |
| | | | | Carbon | 7440-44-0 | 0.15 | 0.001 | |
| | | | | Silicon | 7440-21-3 | 1 | 0.010 | |
| | | | | Manganese | 7439-96-5 | 1 | 0.010 | |
| | | | | Iron | 7439-89-6 | 84.85 | 0.830 | |
| 2 | Servo Lid | Aluminum 2011 | 0.00406 | Silicon | 7440-21-3 | 0.4 | 0.0001 | 0.01 |
| | | | | Iron | 7439-89-6 | 0.7 | 0.0001 | |
| | | | | Copper | 7440-50-8 | 5 | 0.00066 | |
| | | | | Zinc | 7440-66-6 | 0.3 | 0.00004 | |
| | | | | Misc., not to declare | Trade Secret | 0.15 | 0.00002 | |
| | | | | Aluminum | 7429-90-5 | 92.925 | 0.01 | |
| | | | | Bismuth | 7440-69-9 | 0.325 | 0.00004 | |
| | | | | Lead | 7439-92-1 | 0.2 | 0.00003 | |
| 3 | Terminal Wiper | Brass C260 | 0.3000 | Copper | 7440-50-8 | 70 | 0.685 | 0.98 |
| | | Under Plating | 0.0120 | Zinc | 7440-66-6 | 30 | 0.29 | |
| | | Finish Plating | 0.0274 | Nickel | 7440-02-0 | 100 | 0.039 | |
| | | | | Gold | 7440-57-5 | 100 | 0.089 | |

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| | | | | | | | | |
|-----------------------------------|---------------|---------------------------|-----------|---|------------|------|---------|--------|
| 4 | Cover | GS-51 Nylatron | 1.642004 | Nylon 6.6 (polyhexamethylene adipamide) | 32131-17-2 | 66 | 3.53 | 5.35 |
| | | | | Glass Fiber | 65997-17-3 | 32 | 1.71 | |
| | | | | Molybdenum Disulfide | 1317-33-5 | 2 | 0.11 | |
| 5 | Housing | ShinKong compound (Black) | 7.893 | PBT | 26062-94-2 | 53.7 | 13.82 | 25.73 |
| | | | | Glass Fiber | 65997-17-3 | 30 | 7.7203 | |
| | | | | Brominated Epoxy Resin | 68928-70-1 | 10.5 | 2.7021 | |
| | | | | Antimony Trioxide | 1309-64-4 | 3 | 0.7720 | |
| | | | | Pigment Blue 15 | 147-14-8 | 0.8 | 0.2059 | |
| Further Additives, not to declare | N/A | 2 | 0.5147 | | | | | |
| 6 | Varnish | Varnish | 0.052 | Phenolic Resin | 9003-35-4 | 100 | 0.1695 | 0.17 |
| 7 | Mandrel Wire | Annealed Copper Wire | 1.6848122 | Copper | 7440-50-8 | 100 | 5.49 | 5.49 |
| | | Coating | 0.0000312 | Polyamide | 63428-83-1 | 100 | 0.00010 | 0.0001 |
| 8 | Resist Wire | Nickel/Chromium Alloy | 0.13414 | Nickel | 7440-02-0 | 74 | 0.32 | 0.44 |
| | | | | Copper | 7440-50-8 | 1 | 0.004 | |
| | | | | Chromium | 7440-47-3 | 21 | 0.09 | |
| | | | | Aluminum | 7429-90-5 | 1 | 0.004 | |
| | | | | Silicon | 7440-21-3 | 1 | 0.004 | |
| | | | | Cobalt | 7440-48-4 | 1 | 0.004 | |
| Manganese | 7439-96-5 | 1 | 0.004 | | | | | |
| 9 | Collector Bar | Nickel/Silver C762 | 0.063 | Copper | 7440-50-8 | 55 | 0.113 | 0.21 |
| | | | | Nickel | 7440-02-0 | 18 | 0.04 | |
| | | | | Zinc | 7440-66-6 | 27 | 0.0555 | |
| | | Plating | 0.002 | Gold | 7440-57-5 | 100 | 0.007 | 0.007 |

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|----|---------------|---------------------------|-----------|--|------------|------|--------|-------|
| 10 | Lube | NYE N799 | 0.1 | Decanoic acid, mixed esters with heptanoic acid, octanoic acid, trimethylolpropane | 68130-53-0 | 54.4 | 0.18 | 0.33 |
| | | | | Lithium 12-hydroxystearate | 7620-77-1 | 5.7 | 0.019 | |
| | | | | Isohexadecyl-isooctadecanoate | 52006-45-8 | 33.7 | 0.11 | |
| | | | | Polyisobutylene | 9003-27-4 | 6.2 | 0.020 | |
| 11 | Epoxy | BLUE EPOXY E940 | 0.00563 | Epoxy Resin | 25068-38-6 | 64 | 0.012 | 0.018 |
| | | | | Antimony Trioxide | 1309-64-4 | 11 | 0.0020 | |
| | | | | Aluminum Oxide | 1344-28-1 | 10 | 0.002 | |
| | | | | Kaolin Clay | 1332-58-7 | 6 | 0.0011 | |
| | | | | Magnesium Aluminum Silicate | 1327-43-1 | 9 | 0.0017 | |
| 12 | Rotor Molded | GS-51 Nylatron | 2.74877 | Nylon 6.6 (polyhexamethylene adipamide) | 32131-17-2 | 66 | 5.91 | 8.96 |
| | | | | Glass Fiber | 65997-17-3 | 32 | 2.87 | |
| | | | | Molybdenum Disulfide | 1317-33-5 | 2 | 0.179 | |
| 13 | Slider Molded | GS-51 Nylatron | 0.7937866 | Nylon 6.6 (polyhexamethylene adipamide) | 32131-17-2 | 66 | 1.708 | 2.59 |
| | | | | Glass Fiber | 65997-17-3 | 32 | 0.828 | |
| | | | | Molybdenum Disulfide | 1317-33-5 | 2 | 0.052 | |
| 14 | Lid Molded | ShinKong compound (Black) | 2.2112628 | PBT | 26062-94-2 | 53.7 | 3.872 | 7.21 |
| | | | | Glass Fiber | 65997-17-3 | 30 | 2.163 | |
| | | | | Brominated Epoxy Resin | 68928-70- | 10.5 | 0.757 | |

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|----|----------------|------------------------|-------|-----------------------------------|-----------|----------|----------|-------|
| | | | | | | | | |
| | | | | Antimony Trioxide | 1309-64-4 | 3 | 0.216 | |
| | | | | Pigment Blue 15 | 147-14-8 | 0.8 | 0.058 | |
| | | | | Further Additives, not to declare | N/A | 2 | 0.144 | |
| 15 | Contact Spring | Pfinodal 7 C72900 | 0.01 | Copper | 7440-50-8 | 72.875 | 0.02 | 0.03 |
| | | | | Lead | 7439-92-1 | 0.025 | 0.00001 | |
| | | | | Iron | 7439-89-6 | 0.3 | 0.0001 | |
| | | | | Nickel | 7440-02-0 | 21 | 0.0068 | |
| | | | | Cobalt | 7440-48-4 | 0.25 | 0.0001 | |
| | | | | Tin | 7440-31-5 | 5.1 | 0.001663 | |
| | | | | Manganese | 7439-96-5 | 0.3 | 0.000098 | |
| | Misc | Not to declare | 0.15 | 0.000049 | | | | |
| | | Paliney #6 | 0.003 | Palladium | 7440-05-3 | 39.8 | 0.003893 | 0.01 |
| | | | | Silver | 7440-22-4 | 33.9 | 0.003316 | |
| | | | | Copper | 7440-50-8 | 24.2 | 0.002367 | |
| | | | | Platinum | 7440-06-4 | 0.5 | 0.000049 | |
| | | | | Nickel | 7440-02-0 | 1.59 | 0.000156 | |
| | Zinc | | | 7440-66-6 | 0.01 | 0.000001 | | |
| 16 | Shaft | Stainless Steel 303 | 6.89 | Carbon | 7440-44-0 | 0.15 | 0.03 | 22.46 |
| | | | | Manganese | 7439-96-5 | 2 | 0.45 | |
| | | | | Phosphorus | 7723-14-0 | 0.2 | 0.04 | |
| | | | | Sulfur | 7704-34-9 | 0.15 | 0.03 | |
| | | | | Silicon | 7440-21-3 | 0.9 | 0.20 | |
| | | | | Chromium | 7440-47-3 | 18 | 4.04 | |
| | | | | Nickel | 7440-02-0 | 9 | 2.02 | |
| | | | | Iron | 7439-89-6 | 69 | 15.50 | |
| | Molybdenum | 7439-98-7 | 0.6 | 0.13 | | | | |
| 17 | Retaining Ring | Stainless Steel 420 | 0.009 | Carbon | 7440-44-0 | 0.15 | 0.00004 | 0.03 |

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|---------|------------------|----------------------|-------------|---|------------|--------|---------|--------|
| | | | | Manganese | 7439-96-5 | 1.00 | 0.0003 | |
| | | | | Silicon | 7440-21-3 | 1.00 | 0.0003 | |
| | | | | Phosphorous | 7723-14-0 | 0.04 | 0.00001 | |
| | | | | Sulfur | 7704-34-9 | 0.30 | 0.00009 | |
| | | | | Chromium | 7440-47-3 | 14.00 | 0.004 | |
| | | | | Iron | 7439-89-6 | 83.51 | 0.025 | |
| 18 | Bushing | Brass C360 | 3.71 | Copper | 7440-50-8 | 61.50 | 7.439 | 12.10 |
| | | | | Zinc | 7440-66-6 | 35.40 | 4.282 | |
| | | | | Lead | 7439-92-2 | 3.10 | 0.375 | |
| 19 | T.R. Terminal x2 | Nickel/Silver C752 | 0.164 | Copper | 7440-50-8 | 65.00 | 0.348 | 0.53 |
| | | | | Nickel | 7440-02-0 | 18.00 | 0.096 | |
| | | | | Zinc | 7440-66-6 | 17.00 | 0.091 | |
| | | Solder Inlay | 0.0001 | Silver | 7440-22-4 | 56.00 | 0.0002 | 0.0003 |
| | | | | Copper | 7440-50-8 | 22.00 | 0.0001 | |
| | | | | Zinc | 7440-66-6 | 17.00 | 0.00006 | |
| | | | | Tin | 7440-31-5 | 5.00 | 0.00002 | |
| Plating | 0.00074 | Gold | 7440-57-5 | 100.00 | 0.002 | 0.002 | | |
| 20 | T.R. Pin Strip | Nickel Silver CDA752 | 0.249 | Nickel | 7440-02-0 | 18.00 | 0.146 | 0.812 |
| | | | | Copper | 7440-50-8 | 65.00 | 0.528 | |
| | | | | Zinc | 7440-66-6 | 17.00 | 0.138 | |
| 21 | Terminal Cover | GS-51 Nylatron | 1.367581 | Nylon 6.6 (polyhexamethylene adipamide) | 32131-17-2 | 66.00 | 2.943 | 4.46 |
| | | | | Glass fiber | 65997-17-3 | 32.00 | 1.427 | |
| | | | | Molybdenum disulfide | 1317-33-5 | 2.00 | 0.089 | |
| 22 | Tab | Silver Alloy A56T | 0.013312288 | Silver | 7440-22-4 | 56.00 | 0.0243 | 0.04 |
| | | | | Copper | 7440-50-8 | 22.00 | 0.0095 | |
| | | | | Zinc | 7440-66-6 | 17.00 | 0.0074 | |
| | | | | Tin | 7440-31-5 | 5.00 | 0.0022 | |
| | | Strip | 0.1924 | Nickel | 7440-02-0 | 100.00 | 0.0434 | 0.63 |

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|----|-----------|---------------|---------|---|--------------|-------|----------|------|
| 23 | Lid Resin | Valox 420 | 0.003 | PBT | 30965-26-5 | 55.00 | 0.0054 | 0.01 |
| | | | | Glass Fiber | 65997-17-3 | 30.00 | 0.002934 | |
| | | | | Antimony Trioxide | 1309-64-4 | 4.00 | 0.000391 | |
| | | | | Brominated FR (TBBPA polycarbonate polymer) | trade secret | 11.00 | 0.001076 | |
| 24 | Insert | Aluminum 2011 | 0.085 | Silicon | 7440-21-3 | 0.40 | 0.001109 | 0.28 |
| | | | | Iron | 7439-89-6 | 0.70 | 0.001940 | |
| | | | | Copper | 7440-50-8 | 5.00 | 0.013857 | |
| | | | | Zinc | 7440-66-6 | 0.30 | 0.000831 | |
| | | | | Misc., not to declare | Trade Secret | 0.15 | 0.000416 | |
| | | | | Aluminum | 7429-90-5 | 92.93 | 0.257527 | |
| | | | | Bismuth | 7440-69-9 | 0.33 | 0.000901 | |
| | | | | Lead | 7439-92-1 | 0.20 | 0.000554 | |
| | | Total weight | 30.6710 | | | | | |

This Document was updated on: 2/12/2025

Important remarks:

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