


MATERIAL DECLARATION SHEET



Reliable Electronic Solutions

| | | |
|-----------------|-----------------|---|
| Material # | 6638S |  |
| Product Line | Precisions | |
| Posted Date | | |
| Compliance Date | Since Inception | |
| RoHS Compliant | Yes | |

| No. | Construction element | Material group | Material weight [g] | Materials | CAS If applicable | Average mass [%] | Sum [%] |
|-----|----------------------|-----------------------|---------------------|------------|----------------------|------------------|---------|
| 1 | Hex Nut | Stainless Steel Alloy | | Carbon | 7440-44-0 | 0.15% | |
| | | | | Manganese | 7439-96-5 | 1.00% | |
| | | | | Silicon | 7740-21-3 | 1.00% | |
| | | | | Chromium | 7740-47-3 | 11.5-13.5% | |
| | | | | Nickel | 7740-02-0 | 1.25-2.5% | |
| | | | | Iron | 7439-89-6 | Balance | |
| 2 | Lock Washer | Stainless Steel Alloy | 0.25 | Carbon | 7440-44-0 | 0.15% | |
| | | | | Manganese | 7439-96-5 | 1.00% | |
| | | | | Silicon | 7740-21-3 | 1.00% | |
| | | | | Chromium | 7740-47-3 | 11.5-13.5% | |
| | | | | Nickel | 7740-02-0 | 1.25-2.5% | |
| | | | | Iron | 7439-89-6 | Balance | |
| 3 | Bearing Ball | Stainless Steel Alloy | 0.3 | Carbon | 7440-44-0 | 0.69% | |
| | | | | Manganese | 7439-96-3 | 0.66% | |
| | | | | Phosphorus | 7723-14-0 | 0.007% | |
| | | | | Sulfur | 7704-34-9 | 0.005% | |
| | | | | Silica | 7440-21-3 | 0.24% | |
| | | | | Chromium | 7440-47-3 | 0.24% | |
| | | | | Iron | 7439-89-6 | Remainder | |
| 4 | Collector Ring | Copper-Nickel Alloy | | Copper | 7440-50-8 | 63.5-66.5% | |
| | | | | Zinc | 7440-66-6 | 17.25% | |
| | | | | Lead | 7439-92-1 | 0.05% | |
| | | | | Nickel | 7440-02-0 | 11.0-13.0% | |
| | | | | Iron | 7439-89-6 | 0.25% | |
| | | | | Manganese | 7439-96-3 | 0.50% | |
| | | | | Plating | Gold | 7440-57-5 | |



Reliable Electronic Solutions

| | | | | | | | |
|----|------------------|-----------------------|--------|--|------------|-----------|--|
| 5 | Teflon Shim | PTFE | | Polytetrafluoroethylene | 9002-84-0 | 15% | |
| | | | | 1-Dichloro-1-Fluoroethane | 1717-00-6 | 85% | |
| 6 | Ink | Ink | 0.0004 | Phenol | 108-95-2 | <1% | |
| | | | | Formaldehyde | 50-00-0 | <2% | |
| | | | | Xylene | 1330-20-7 | 30% | |
| | | | | Amorphous Silica | 7631-86-9 | <3% | |
| | | | | Carbon | 7440-44-0 | 20% | |
| | | | | Silver | 7440-22-4 | <42% | |
| | | | | Phenol | 108-95-2 | <1% | |
| 7 | Modified Ink | Ink | 0.0004 | Formaldehyde | 50-00-0 | <2% | |
| | | | | Xylene | 1330-20-7 | 30% | |
| | | | | Amorphous Silica | 7631-86-9 | <3% | |
| | | | | Carbon | 7440-44-0 | 20% | |
| | | | | Silver | 7440-22-4 | <42% | |
| | | | | Phenol | 108-95-2 | <1% | |
| 8 | Termination Ink | Ink | 0.0005 | Formaldehyde Polymer with Phenol & Methyl phenol | 9039-25-2 | <20% | |
| | | | | 2-Ethyl Acetate | 124-17-4 | <30% | |
| | | | | Silver | 7440-22-4 | <50% | |
| 9 | Conductive Epoxy | BCC | 0.0004 | Biphenyl A Polyglycidyl Ether | 25068-38-6 | 27% | |
| | | | | Butyl Glydicyl Ether | 2426-08-6 | 9% | |
| | | | | Silver | 7440-22-4 | 64% | |
| 10 | Cover | Dially Phthalate | | Antimony Trioxide | 1309-64-4 | <5% | |
| | | | | Aluminum Hydroxide | 21645-51-2 | <20% | |
| | | | | Diallyl Phthalate | ***** | Remainder | |
| | | | | Glass Fiber | 65997-17-3 | <50% | |
| 11 | Terminal | Plating | 0.012 | Gold | 7440-57-5 | 100% | |
| | | Leaded Brass Alloy | 0.125 | Copper | 7440-50-8 | 55-72% | |
| | | | | Lead | 7439-92-1 | 0-3.5% | |
| | | | | Tin | 7440-31-5 | 0-1% | |
| | | | | Zinc | 7440-66-6 | 35-45% | |
| 12 | Bushing/Lid | Aluminum Alloy | | Aluminum | 7429-90-5 | 93% | |
| | | | | Iron | 7439-89-6 | 5.50% | |
| | | | | Lead | 7439-92-1 | 0.70% | |
| | | | | Magnesium | 7439-98-5 | 0.40% | |
| | | | | Sulfur | 7704-34-9 | 0.40% | |
| | | | | Zinc | 7440-66-6 | 0.30% | |
| 13 | C-Ring | Stainless Steel Alloy | 0.01 | Iron | 1309-37-1 | 85% | |
| | | | | Chromium | 7440-47-3 | 13% | |



Reliable Electronic Solutions

| | | | | | | | |
|----|----------------|-----------------------|------|-----------------------|------------|------------|--|
| | | | | Silicon | 7440-21-3 | 1% | |
| | | | | Manganese | 7439-96-3 | 1% | |
| 14 | Collector Arm | Copper-Nickel Alloy | | Copper | 7440-50-8 | 63.5-66.5% | |
| | | | | Zinc | 7440-66-6 | 17.25% | |
| | | | | Lead | 7439-92-1 | 0.05% | |
| | | | | Nickel | 7440-02-0 | 11.0-13.0% | |
| | | | | Iron | 7439-89-6 | 0.25% | |
| | | | | Manganese | 7439-96-3 | 0.50% | |
| | | | | | | | |
| 15 | Contact Spring | Metal Alloy | | Copper | 7440-50-8 | 0-20% | |
| | | | | Nickel | 7440-02-0 | 0-20% | |
| | | | | Palladium | 5/3/7440 | 40-60% | |
| | | | | Platinum | 6/4/7440 | 0-20% | |
| | | | | Silver | 7440-22-4 | 20-40% | |
| 16 | Rotor | Polyphenylene Sulfide | | Polyphenylene Sulfide | 26125-40-6 | 100% | |
| 17 | Shaft | Stainless Steel Alloy | 6.85 | Nickel | 7440-02-0 | 8.90 | |
| | | | | Chromium | 7440-47-3 | 18.30 | |
| | | | | Iron | 1309-37-1 | Balance | |
| | | | | Manganese | 7439-96-5 | 1.80 | |
| | | | | Silicon | 7440-21-3 | 1.00 | |
| 18 | Washer | Stainless Steel Alloy | 0.01 | Iron | 7439-89-6 | 70% | |
| | | | | Chromium | 7440-47-3 | 18% | |
| | | | | Manganese | 7439-96-3 | 2% | |
| | | | | Nickel | 7440-02-0 | 9% | |
| | | | | Silicon | 7440-21-3 | 1% | |
| 19 | Washer | Stainless Steel Alloy | 0.01 | Iron | 7439-89-6 | 70% | |
| | | | | Chromium | 7440-47-3 | 18% | |
| | | | | Manganese | 7439-96-3 | 2% | |
| | | | | Nickel | 7440-02-0 | 9% | |
| | | | | Silicon | 7440-21-3 | 1% | |
| | | Total weight | | | | | |