

Material Declaration Sheet




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|-----------------|-----------------------------------------------|-----|----------|
| Material Number | PWR6927 | | |
| Product Line | Surface Mound Wirewound Power Resistor | | |
| Compliance Date | July 9, 2023 | | |
| RoHS Compliant | Yes | MSL | 1 |

| 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 | Ceramic Core - End Cap SubAssembly | Ceramic Core | 0.6246 | Alumium Oxide | 1334-28-1 | 83.08% | 56.47% | 46.12% |
| | | | | Silicon Dioxide | 14808-60-7 | 15.00% | 10.20% | |
| | | | | Magnesium Oxide | 1309-48-4 | 0.19% | 0.13% | |
| | | | | Calcium Oxide | 1305-78-8 | 0.18% | 0.12% | |
| | | | | Iron Oxide Nanoparticles | 1309-37-1 | 0.17% | 0.12% | |
| | | | | Sodium Oxide | 1313-59-3 | 1.02% | 0.69% | |
| | | | | Potassium Oxide | 12136-45-7 | 0.21% | 0.14% | |
| | | | | Barium Oxide | 1304-28-5 | 0.15% | 0.10% | |
| | | End Cap | 0.2797 | Iron (Fe) | 7439-89-6 | 98.81% | 30.07% | |
| | | | | Carbon (C) | 7440-44-0 | 0.18% | 0.05% | |
| | | | | Manganese (Mn) | 7439-96-5 | 0.82% | 0.25% | |
| | | | | Sulphur (S) | 7704-34-9 | 0.08% | 0.02% | |
| | | | | Phosphorus (P) | 7723-14-0 | 0.11% | 0.03% | |
| Cupper Plating | 0.0140 | Copper (Cu) | 7440-50-8 | 100.00% | 1.52% | | | |
| Sn Plating | 0.0007 | Tin (Sn) | 7440-31-5 | 100.00% | 0.08% | | | |
| 2 | Lead Sub Assembly | Copper Lead | 0.0942 | Copper (Cu) | 7440-50-8 | 100.00% | 99.95% | 4.73% |
| | | Sn Plating | 0.0001 | Tin (Sn) | 7440-31-5 | 100.00% | 0.05% | |
| 3 | Alloy Resistance Wire | Ni | 0.2623 | Nickel (Ni) | 7440-02-0 | 81.00% | 81.00% | 13.17% |
| | | Cr | | Chromium (Cr.) | 7440-47-3 | 15.00% | 15.00% | |
| | | Other | | Aluminum (Al) | 7429-90-5 | 4.00% | 4.00% | |
| 4 | Protective Coat | Silicone Resin | 0.0183 | Silica | 14808-60-7 | 100.00% | 100.00% | 0.92% |

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| 5 | Epoxy Molded | Epoxy Molding Compound | 0.6986 | Silica | 14808-60-7 | 64.00% | 64.00% | 35.06% |
| | | | | Epoxy Resin | 29690-82-2 | 20.00% | 20.00% | |
| | | | | Phenol Resin | 9003-35-4 | 12.50% | 12.50% | |
| | | | | Antimony Trioxide | 1309-64-4 | 2.50% | 2.50% | |
| | | | | Brominated Epoxy R. | 40039-93-8 | 0.50% | 0.50% | |
| | | | | Carbon Black | 1333-86-4 | 0.50% | 0.50% | |
| Total | | | 1.9925 | | | | | 100.00% |

This Document was updated on: Nov 4, 2024

Important remarks:

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