


MATERIAL DECLARATION SHEET

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|-----------------|-----------------------|-----|-----|---|
| Material Number | 3339 (10Ω to 250Ω) LF | | |  |
| Product Line | Trimmer | | | |
| Compliance Date | 2/17/2005 | | | |
| RoHS Compliant | Yes DC 509 | 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 | Contact Spring | Ni/Ag | 0.0056 | Copper | 7440-50-8 | 59 | 0.6106 | 1.03 |
| | | | | Nickel | 7440-02-0 | 12 | 0.1242 | |
| | | | | Zinc | 7440-66-6 | 29 | 0.3001 | |
| 2 | Shaft | Polybutylene terephthalate | 0.0168 | Polybutylene terephthalate | 30965-26-5 | 55 | 1.7076 | 3.10 |
| | | | | Glass fiber | 65997-17-3 | 30 | 0.9314 | |
| | | | | Antimony trioxide | 1309-64-4 | 4 | 0.1242 | |
| | | | | Brominated FR (TBBPA polycarbonate polymer) | trade secret | 11 | 0.3415 | |
| 3 | Rotor | Nylon | 0.0265 | Polyamide 66 | 32131-17-2 | 60 | 2.9385 | 4.90 |
| | | | | Glass fiber | 65997-17-3 | 32 | 1.5672 | |
| | | | | Tetrafluoroethylene polymer | 9002-84-0 | 8 | 0.3918 | |
| 4 | Seal Ring | Rubber | 0.0031 | Silicone | 63394-02-5 | 100 | 0.5729 | 0.57 |
| 5 | Cover | Polybutylene terephthalate | 0.139 | Polybutylene terephthalate | 30965-26-5 | 49 | 12.5873 | 25.69 |
| | | | | Glass fiber | 65997-17-3 | 35 | 8.9909 | |
| | | | | Brominated flame retardant | | 10 | 2.5688 | |
| | | | | Antimony trioxide | 1309-64-4 | 6 | 1.5413 | |
| 6 | Substrate | Ceramic | 0.2017 | Aluminum oxide | 1344-28-1 | 96 | 35.7849 | 37.27 |
| | | | | Silicon dioxide | 7631-86-9 | 2 | 0.7455 | |
| | | | | Magnesium oxide | 1309-48-4 | 1 | 0.3728 | |
| | | | | Calcium oxide | 1305-78-8 | 1 | 0.3728 | |
| 7 | Drive Wheel | Rubber | 0.0022 | Silicone Rubber | 63394-02-5 | 100 | 0.4066 | 0.41 |

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|----|-----------------|--------------|--------|-----------------------------|--------------|--------|--------|-------|
| 8 | Insert | Nylon | 0.0223 | Polyamide 66 | 32131-17-2 | 60 | 2.4727 | 4.12 |
| | | | | Glass fiber | 65997-17-3 | 30 | 1.2364 | |
| | | | | Carbon black | 7440-44-0 | 2 | 0.0824 | |
| | | | | Tetrafluoroethylene polymer | 9002-84-0 | 8 | 0.3297 | |
| 9 | Potting | Epoxy | 0.0625 | Cycloaliphatic epoxide | trade secret | 40 | 4.6202 | 11.55 |
| | | | | Polyetherpolyol resins | 39072-02-1 | 15 | 1.7326 | |
| | | | | Silicon dioxide | 67762-90-7 | 25 | 2.8876 | |
| | | | | Hydrated alumina | 21645-51-2 | 20 | 2.3101 | |
| 10 | Termination Ink | Ink | 0.002 | Silver | 7440-22-4 | 82 | 0.3031 | 0.37 |
| | | | | Boron | 7440-42-8 | 2 | 0.0074 | |
| | | | | Bismuth | 7440-69-9 | 14 | 0.0517 | |
| | | | | Barium | 7440-39-3 | 2 | 0.0074 | |
| 11 | Resistive Ink | Ink | 0.0043 | Silver | 7440-22-4 | 25 | 0.1987 | 0.79 |
| | | | | Palladium | 7440-05-3 | 30 | 0.2384 | |
| | | | | Barium | 7440-39-3 | 21 | 0.1669 | |
| | | | | Boron | 7440-42-8 | 20 | 0.1589 | |
| | | | | Manganese | 7439-96-5 | 4 | 0.0318 | |
| 12 | Terminals | Copper | 0.0517 | Copper | 7440-50-8 | 99.999 | 9.5545 | 10.18 |
| | | Plating | 0.0034 | Oxygen | 7782-44-7 | 0.001 | 0.0001 | |
| | | | | Tin | 7440-31-5 | 100 | 0.6283 | |
| 13 | Lubricant | Lubricant | 0.0001 | Polydimethylsiloxane | 63148-62-9 | 58 | 0.030 | 0.02 |
| | | | | Dimethyl siloxane | 70131-67-8 | 9.5 | 0.005 | |
| | | | | Silica, amorphous | 7631-86-9 | 12.5 | 0.007 | |
| | | | | Siloxane/silicones | 63148-56-1 | 14 | 0.007 | |
| | | | | Tetrafluoroethane | 9002-84-0 | 6 | 0.003 | |
| | | Total Weight | 0.5412 | | | | | |

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|-----|---------|--------------|--------|----------------------------|------------|----|---------|--|
| 13* | Adaptor | PBT | 0.318 | Polybutylene terephthalate | 30965-26-5 | 49 | 18.1376 | |
| | | | | Glass fiber | 65997-17-3 | 35 | 12.9554 | |
| | | | | Brominated flame retardant | | 10 | 3.7015 | |
| | | | | Antimony trioxide | 1309-64-4 | 6 | 2.2209 | |
| | | Total Weight | 0.8592 | | | | | |

This Document was updated on: 12-5-2019

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. No. 13* included for terminal style S and W only.
3. Non RoHS Compliant versions available without the LF suffix