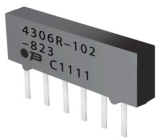


MATERIAL DECLARATION SHEET



| | | | | |
|-----------------|-----------------|-----|---|---|
| Material Number | 4306R-LF Series | | |  |
| Product Line | Networks | | | |
| Compliance Date | 12/06/2017 | | | |
| 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 | Housing | Epoxy Molding | 0.2 | Silica | 14808-60-7 | 53 | 24.91 | 47.14% |
| | | | | Epoxy Resin | 29690-82-2 | 25 | 11.75 | |
| | | | | Phenolic Resin | 9003-35-4 | 15 | 7.05 | |
| | | | | Antimony trioxide | 1309-64-4 | 3 | 1.41 | |
| | | | | Brominated epoxy resin | 40039-93-8 | 3 | 1.41 | |
| | | | | Carbon Black | 1333-86-4 | 1 | 0.47 | |

MATERIAL DECLARATION SHEET



| | | | | | | | | |
|---|---------------|-------------|---------|--------------------------|------------|--------|---------|--------|
| 2 | Terminal Pins | Copper pins | 0.078 | Copper | 7440-50-8 | 97.43 | 17.5374 | 18.59% |
| | | | | Iron | 7439-89-1 | 2.35 | 0.423 | |
| | | | | Phosphorus | 7723-14-0 | 0.0825 | 0.01485 | |
| | | | | Lead | 7439-92-1 | 0.015 | 0.0027 | |
| | | | | Zinc | 7440-66-6 | 0.125 | 0.0225 | |
| | | Ni Plating | 0.00023 | Nickel | 7440-02-0 | 0.001 | 0.00018 | |
| | | Tin Plating | 0.00063 | Tin | 7440-31-5 | 0.001 | 0.00018 | |
| 3 | Termination | Solder | 0.033 | Tin | 7440-31-5 | 10 | 0.8 | 7.78% |
| | | | | Lead | 7439-92-1 | 88 | 7.04 | |
| | | | | Silver | 7440-22-4 | 2 | 0.16 | |
| 4 | Substrate | Alumina | 0.1094 | Aluminum Oxide | 1344-28-1 | 88 | 22.88 | 25.79% |
| | | | | Manganese dioxide | 1313-13-9 | 3.5 | 0.91 | |
| | | | | Titanium-dioxide | 13463-67-1 | 3.5 | 0.91 | |
| | | | | Chromium (III) oxide | 1308-38-9 | 2.5 | 0.65 | |
| | | | | Quartz (Silicon dioxide) | 14808-60-7 | 2.5 | 0.65 | |
| 5 | Term Ink | Ink | 0.0003 | Silver | 7440-22-4 | 96.8 | 0.0968 | 0.07% |
| | | | | Lead | 7439-92-1 | 0.5 | 0.0005 | |
| | | | | Bismuth | 7440-69-9 | 1.6 | 0.0016 | |
| | | | | Platinum | 7440-06-4 | 1.1 | 0.0011 | |

MATERIAL DECLARATION SHEET



| | | | | | | | | |
|---|----------------|--------------|---------|-------------------|------------|------|--------|-------|
| 6 | Resistor Paste | Ink | 0.001 | Palladium | 7440-05-3 | 33.4 | 0.0668 | 0.24% |
| | | | | Glass Fiber | 65997-17-3 | 45.3 | 0.0906 | |
| | | | | Silver | 7440-22-4 | 20 | 0.04 | |
| | | | | Ruthenium dioxide | 12036-10-1 | 1.3 | 0.0026 | |
| 7 | Encapsulant | Ink | 0.0017 | Lead | 7439-92-1 | 55.4 | 0.2216 | 0.40% |
| | | | | Glass Fiber | 65997-17-3 | 44.6 | 0.1784 | |
| | | Total weight | 0.42426 | | | | | |

This Document was updated: December, 2017

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Use RoHS exemptions 7c-1, 7a