


# MATERIAL DECLARATION SHEET



|                 |            |     |   |   |
|-----------------|------------|-----|---|---|
| Material Number | CRT0603    |     |   |  |
| Product Line    | CRT Series |     |   |   |
| Compliance Date | 11-10-2006 |     |   |   |
| RoHS Compliant  | YES        | MSL | 1 |   |

| No. | Construction Element(subpart) | Homogeneous Material | Material weight [mg] | Homogeneous Material\ Substances | CASRN if applicable | Materials Mass % | Material Mass % of total unit wt. | Subpart mass of total wt. (%) |
|-----|-------------------------------|----------------------|----------------------|----------------------------------|---------------------|------------------|-----------------------------------|-------------------------------|
| 1   | Substrate                     | Ceramics             | 1.73378              | Aluminum oxide                   | 1344-28-1           | 96               | 90.95                             | 94.74                         |
|     |                               |                      |                      | Silicon dioxide                  | 14808-60-7          | 3                | 2.84                              |                               |
|     |                               |                      |                      | Magnesium oxide                  | 1309-48-4           | 1                | 0.95                              |                               |
| 2   | Backside Electrode            | Conductor            | 0.021                | Silver                           | 7440-22-4           | 85               | 0.98                              | 1.15                          |
|     |                               |                      |                      | Copper oxide                     | 1317-38-0           | 15               | 0.17                              |                               |
| 3   | Upside Electrode              | Conductor            | 0.021                | Silver                           | 7440-22-4           | 85               | 0.98                              | 1.15                          |
|     |                               |                      |                      | Copper oxide                     | 1317-38-0           | 15               | 0.17                              |                               |
| 4   | Overcoat                      | Epoxy Resin          | 0.0154               | Resins                           | Trade secret        | 51.5             | 0.43                              | 0.84                          |
|     |                               |                      |                      | Carbon Black                     | 1333-86-4           | 4.4              | 0.04                              |                               |
|     |                               |                      |                      | Silicon dioxide                  | 60676-86-0          | 29.4             | 0.25                              |                               |
|     |                               |                      |                      | Talc                             | 14807-96-6          | 14.7             | 0.12                              |                               |
| 5   | Edge Electrode                | NiCr                 | 0.00129              | Nickel                           | 7440-02-0           | 56               | 0.04                              | 0.07                          |
|     |                               |                      |                      | Chromium                         | 7440-47-3           | 44               | 0.03                              |                               |
| 6   | Resistor Layer                | NiCr                 | 0.01293              | Chromium                         | 7440-47-3           | 44               | 0.31                              | 0.71                          |
|     |                               |                      |                      | Nickel                           | 7440-02-0           | 56               | 0.40                              |                               |
| 7   | Marking                       | Ink                  | 0.01                 | Synthetic resin                  | Trade Secret        | 80               | 0.44                              | 0.55                          |
|     |                               |                      |                      | Titanium dioxide                 | 13463-67-7          | 20               | 0.11                              |                               |
| 8   | Nickel Plating                | Nickel               | 0.00515              | Nickel                           | 7440-02-0           | 100              | 0.28                              | 0.28                          |
| 9   | Tin Plating                   | Tin                  | 0.00945              | Tin                              | 7440-31-5           | 100              | 0.51                              | 0.51                          |
|     |                               |                      | Total weight         |                                  |                     | 1.83             |                                   |                               |

This Document was updated on: 2012/06/11

**Important remarks:**

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