

Material Data Declaration Sheet

ECS INC. INTERNATIONAL

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|----------------------|---------------------------|---|
| ECS Model Number | ECX-49 (-49 Package Type) | |
| Product Description | SMD Crystal | |
| Product Revision | | |
| Product Total Weight | 16.0848mg/pcs | |
| Contact Information | Company | ECS INC. INTERNATIONAL |
| | Contact Name | AJ Anderson |
| | Address | 15351 W. 109th Street Lenexa, KS 66219 |
| | Phone Number | 913-782-7787 |



| Homogenous Component/Subcomponent | Homogenous Component/Sub component Weight (mg) | Substance | CAS number | Substance Weight (mg) | PPM Level (If Available) (Substance Weight/Total Homogenous Component or Subcomponent Weight*1000000) | Purpose/Location |
|-----------------------------------|--|---|------------|-----------------------|---|--------------------|
| Base | 11.2190 | Alumina-Al ₂ O ₃ | 1344-28-1 | 8.4096 | 522829 | Ceramic |
| | | Silica-SiO ₂ | 7631-86-9 | 0.3738 | 23239 | Ceramic |
| | | Calcium oxide-CaO | 1305-78-8 | 0.0467 | 2903 | Ceramic |
| | | Magnesium oxide-MgO | 1309-48-4 | 0.0467 | 2903 | Ceramic |
| | | Chromium oxide-Cr ₂ O ₃ | 1308-38-9 | 0.3738 | 23239 | Ceramic |
| | | Titanium oxide-TiO ₂ | 13463-67-7 | 0.0934 | 5807 | Ceramic |
| | | Tungsten-W | 7440-33-7 | 1.5161 | 94257 | Electric conductor |
| | | Molybdenum-Mo | 7439-98-7 | 0.0469 | 2916 | Electric conductor |
| | | Nickel-Ni | 7440-02-0 | 0.1952 | 12136 | Plating |
| | | Cobalt-Co | 7440-48-4 | 0.0488 | 3034 | Plating |
| Gold-Au | 7440-57-5 | 0.0680 | 4228 | Plating | | |
| LID | 3.8943 | Iron-Fe | 7439-89-6 | 1.8070 | 112342 | Alloy |
| | | Nickel-Ni | 7440-02-0 | 0.9530 | 59248 | Alloy |
| | | Cobalt-Co | 7440-48-4 | 0.5260 | 32702 | Alloy |
| | | Gold-Au | 7440-57-5 | 0.0054 | 336 | Plating |
| | | Nickel-Ni | 7440-02-0 | 0.0029 | 180 | Plating |
| | | Gold-Au | 7440-57-5 | 0.4800 | 29842 | Seal |
| | | Tin-Sn | 7440-31-5 | 0.1200 | 7460 | Seal |
| Seal Material | 0.5181 | Gold-Au | 7440-57-5 | 0.4533 | 28182 | |
| | | Germanium-Ge | 7440-56-4 | 0.0648 | 4029 | |
| Blank | 0.3534 | Quartz-SiO ₂ | 14808-60-7 | 0.3460 | 21511 | Quartz crystal |
| | | Titanium-Ti | 7440-32-6 | 0.0006 | 37 | Electrode |
| | | Palladium-Pd | 7440-05-3 | 0.0001 | 6 | Electrode |
| | | Gold-Au | 7440-57-5 | 0.0065 | 404 | Electrode |
| | | Chromium-Cr | 7440-47-3 | 0.0002 | 12 | Electrode |
| Bond | 0.1000 | Ag | 7440-22-4 | 0.0800 | 4974 | |
| | | Silicone Resin | 67763-03-5 | 0.0140 | 870 | |
| | | Silicone dioxide | 7631-86-9 | 0.0060 | 373 | |