

# Material Data Declaration Sheet

# ECS INC. INTERNATIONAL

ECS Model ECX-64 (-23B)

Product Description 3.5 x 6 SMD Crystal, Pb Free/RoHS Compliant

Part Number

Product Total Weight 0.104g/pcs

### Contact Information

|              |  |
|--------------|--|
| Company      | ECS INC. INTERNATIONAL                     |
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| Homogenous Component/Subcomponent | Homogenous Component/Subcomponent Weight (g) | Substance                              | CAS number | Substance Weight (g) | PPM Level (If Available) (Substance Weight/Total Homogenous Component or Subcomponent Weight*1000000) | Purpose/Location   |
|-----------------------------------|--|--|------------|----------------------|---|--------------------|
| 6035 PKG                          | 0.0530                                       | Alumina-Al <sub>2</sub> O <sub>3</sub> | 1344-28-1  | 0.036464             | 350615  | Ceramic            |
|                                   |  | Silica-SiO <sub>2</sub>                | 14808-60-7 | 0.002120             | 20385   | Ceramic            |
|                                   |  | Molybdenum-Mo                          | 7439-98-7  | 0.000318             | 3058  | Ceramic            |
|                                   |  | Titanium oxide-TiO                     | 13463-67-7 | 0.000053             | 510   | Ceramic            |
|                                   |  | Magnesia-MgO                           | 1309-48-4  | 0.000424             | 4077  | Ceramic            |
|                                   |  | Calcia-CaO                             | 7440-70-2  | 0.000371             | 3567  | Ceramic            |
|                                   |  | Tungsten-W                             | 7440-33-7  | 0.002862             | 27519   | Electric conductor |
|                                   |  | Molybdenum-Mo                          | 7439-98-7  | 0.000106             | 1019  | Electric conductor |
|                                   |  | Silver-Ag                              | 7440-22-4  | 0.001060             | 10192   | Brazing material   |
|                                   |  | Copper-Cu                              | 7440-50-8  | 0.000424             | 4077  | Brazing material   |
|                                   |  | Iron-Fe                                | 7439-89-6  | 0.004134             | 39750   | Kovar ring         |
|                                   |  | Nickel-Ni                              | 7440-02-0  | 0.002226             | 21404   | Kovar ring         |
|                                   |  | Cobalt-Co                              | 7440-48-4  | 0.001325             | 12740   | Kovar ring         |
|                                   |  | Nickel-Ni                              | 7440-02-0  | 0.000689             | 6625  | Ni plating         |
|                                   |  | Cobalt-Co                              | 7440-48-4  | 0.000265             | 2548  | Ni plating         |
| Gold-Au                           | 7440-57-5                                    | 0.000159                               | 1529       | Au plating           |   |                    |
| LID                               | 0.03   | Iron                                   | 7439-89-6  | 0.015969             | 153548  | Alloy              |
|                                   |  | Nickel                                 | 7440-02-0  | 0.008847             | 85067   | Alloy              |
|                                   |  | Cobalt                                 | 7440-48-4  | 0.005028             | 48346   | Alloy              |
|                                   |  | Mn                                     | 7439-96-5  | 0.000117             | 1125  | Alloy              |
|                                   |  | Silicone Si                            | 7440-21-3  | 0.000024             | 231   | Alloy              |
|                                   |  | Copper Cu                              | 7440-50-8  | 0.000015             | 144   | Alloy              |
| Blank                             | 0.003  | Silica SiO <sub>2</sub>                | 14808-60-7 | 0.003                | 28846   | Quartz crystal     |
| Silver                            | 0.013  | Silver Ag                              | 7440-22-4  | 0.012999610          | 124996  | Electrode          |
|                                   |  | Copper Cu                              | 7440-50-8  | 0.000000390          | 4   | Electrode          |
| Epoxy                             | 0.005  | Silver Ag                              | 7440-22-4  | 0.00425              | 40865   | Connect            |
|                                   |  | Silicone Resin                         | 7440-21-3  | 0.00075              | 7212  | Support            |