

Material Data Declaration Sheet

ECS INC. INTERNATIONAL

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| Supplier Part Number | ECS-3225SMVQ Series |
| Product Description | 3.2x2.5mm SMD Multi-Volt Oscillator AEC-Q200 |
| Product Revision | |
| Product Total Weight | 28.00mg/pcs |



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| Contact Information | Company | ECS INC. INTERNATIONAL |
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| Homogenous Component/ Subcomponent | Homogenous Component/ Subcomponent Weight (mg) | Substance | CAS number | Substance Weight (mg) | PPM Level (If Available) (Substance Weight/Total Homogenous Component or Subcomponent Weight*1000000) | Purpose/Location |
|------------------------------------|--|---|------------|-----------------------|---|--------------------|
| OSC PKG | 20.0000 | Alumina-Al ₂ O ₃ | 1344-28-1 | 13.8800 | 694000 | Ceramic |
| | | Silicon dioxide SiO ₂ | 7631-86-9 | 0.4600 | 23000 | Ceramic |
| | | Magnesia-MgO | 1309-48-4 | 0.0800 | 4000 | Ceramic |
| | | Calcia-CaO | 1305-78-8 | 0.0800 | 4000 | Ceramic |
| | | Chromium oxide-Cr ₂ O ₃ | 1308-38-9 | 0.8400 | 42000 | Ceramic |
| | | Tungsten-W | 7440-33-7 | 1.4200 | 71000 | Electric conductor |
| | | Molybdenum-Mo | 7439-98-7 | 0.0400 | 2000 | Electric conductor |
| | | Silver-Ag | 7440-22-4 | 0.3000 | 15000 | Brazing material |
| | | Copper-Cu | 7440-50-8 | 0.1200 | 6000 | Brazing material |
| | | Iron-Fe | 7439-89-6 | 1.2000 | 60000 | Kovar ring |
| | | Nickel-Ni | 7440-02-0 | 0.6600 | 33000 | Kovar ring |
| | | Cobalt-Co | 7440-48-4 | 0.3800 | 19000 | Kovar ring |
| | | Nickel-Ni | 7440-02-0 | 0.2200 | 11000 | Ni plating |
| | | Cobalt-Co | 7440-48-4 | 0.1800 | 9000 | Ni plating |
| Gold-Au | 7440-57-5 | 0.1400 | 7000 | Au plating | | |
| LID | 1.0000 | Iron-Fe | 7439-89-6 | 0.5375 | 537500 | Alloy |
| | | Nickel-Ni | 7440-02-0 | 0.2949 | 294900 | Alloy |
| | | Cobalt-Co | 7440-48-4 | 0.1676 | 167600 | Alloy |
| Blank | 1.5000 | Silica-SiO ₂ | 14808-60-7 | 1.5000 | 1000000 | Quartz crystal |
| Gold | 0.5000 | Gold-Au | 7440-57-5 | 0.5000 | 1000000 | Electrode |
| Epoxy | 0.5000 | Silver-Ag | 7440-22-4 | 0.4250 | 850000 | Connect |
| | | Silicon-Si | 7440-21-3 | 0.0750 | 150000 | Support |
| Gold Wire | 4.2800 | Gold-Au | 7440-57-5 | 4.2800 | 1000000 | Connect |
| IC | 0.2200 | Silicon-Si | 7440-21-3 | 0.2200 | 1000000 | |