

Material Data Declaration Sheet

ECS INC.

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| Supplier Part Number | CSM-8Q (-20BQ) |
| Product Description | 5X7 SMD crystal |
| Product Revision | |
| Product Total Weight | 0.156g/pcs |



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|---------------------|--------------|--------------------------------------|
| Contact Information | Company | ECS INC. |
| | Contact Name | AJ Anderson |
| | Address | 1105 S. Ridgeview Olathe KS 66062 |
| | Phone Number | 913-782-7787 |

| 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 |
|-----------------------------------|--|--|------------|----------------------|---|--------------------|
| 7050 PKG | 0.0830 | Alumina-Al ₂ O ₃ | 1344-28-1 | 0.051875 | 332532 | Ceramic |
| | | Silica-SiO ₂ | 14808-60-7 | 0.002988 | 19154 | Ceramic |
| | | Molybdenum-Mo | 7439-98-7 | 0.000415 | 2660 | Ceramic |
| | | Titanium oxide-TiO | 13463-67-7 | 0.000083 | 532 | Ceramic |
| | | Magnesia-MgO | 1309-48-4 | 0.000581 | 3724 | Ceramic |
| | | Calcia-CaO | 7440-70-2 | 0.000498 | 3192 | Ceramic |
| | | Tungsten-W | 7440-33-7 | 0.004233 | 27135 | Electric conductor |
| | | Molybdenum-Mo | 7439-98-7 | 0.000166 | 1064 | Electric conductor |
| | | Silver-Ag | 7440-22-4 | 0.002158 | 13833 | Brazing material |
| | | Copper-Cu | 7440-50-8 | 0.000830 | 5321 | Brazing material |
| | | Iron-Fe | 7439-89-6 | 0.009213 | 59058 | Kovar ring |
| | | Nickel-Ni | 7440-02-0 | 0.004980 | 31923 | Kovar ring |
| | | Cobalt-Co | 7440-48-4 | 0.002905 | 18622 | Kovar ring |
| | | Nickel-Ni | 7440-02-0 | 0.001079 | 6917 | Ni plating |
| | | Cobalt-Co | 7440-48-4 | 0.000498 | 3192 | Ni plating |
| Gold-Au | 7440-57-5 | 0.000498 | 3192 | Au plating | | |
| LID | 0.0475 | Iron | 7439-89-6 | 0.02528425 | 162079 | Alloy |
| | | Nickel | 7440-02-0 | 0.01400775 | 89793 | Alloy |
| | | Cobalt | 7440-48-4 | 0.007961 | 51032 | Alloy |
| | | Mn | 7439-96-5 | 0.00018525 | 1188 | Alloy |
| | | Silicone Si | 7440-21-3 | 0.000038 | 244 | Alloy |
| | | Copper Cu | 7440-50-8 | 0.00002375 | 152 | Alloy |
| Blank | 0.0055 | Silica SiO ₂ | 14808-60-7 | 0.0055 | 35256 | Quartz crystal |
| Silver | 0.015 | Silver Ag | 7440-22-4 | 0.01499955 | 96151 | Electrode |
| | | Copper Cu | 7440-50-8 | 0.00000045 | 3 | Electrode |
| Epoxy | 0.005 | Silver Ag | 7440-22-4 | 0.00425 | 27244 | Connect |
| | | Silicone Resin | 67763-03-5 | 0.00075 | 4808 | Support |