

Material Declaration



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| Package Type | SMD |
| Package Size | 7.2 x 5.2 mm |
| Terminal Finish | 8 microns |
| Finish Thickness | Matte Tin |
| Weight (mg) | 110.000 |
| MSL | 1 |

| | |
|--------|-------|
| Series | CX051 |
|--------|-------|

| Item | Material | Element | Content (mg) | Content (wt%) | CAS # | |
|--------------|----------------|--|----------------------------|-----------------|------------|------------|
| Cover | Kovar | Nickel (Ni) | 6.514 | 5.922% | 7440-02-0 | |
| | | Cobalt (Co) | 3.792 | 3.447% | 7440-48-4 | |
| | | Iron (Fe) | 12.181 | 11.074% | 7439-89-6 | |
| | Plating | Nickel (Ni) | 0.932 | 0.847% | 7440-02-0 | |
| Base | Ceramic | Alumina (Al ₂ O ₃) | 52.432 | 47.665% | 1344-28-1 | |
| | | Silicon Dioxide (SiO ₂) | 1.917 | 1.743% | 7631-86-9 | |
| | | Chromium Oxide (Cr ₂ O ₃) | 2.055 | 1.868% | 1308-38-9 | |
| | | Titanium Oxide (TiO ₂) | 0.529 | 0.481% | 13463-67-7 | |
| | Metallization | Tungsten (W) | 8.209 | 7.463% | 7440-33-7 | |
| | Nickel Plating | Nickel (Ni) | 1.091 | 0.992% | 7440-02-0 | |
| | | Cobalt (Co) | 0.360 | 0.327% | 7440-48-4 | |
| | Gold Plating | Gold (Au) | 0.286 | 0.260% | 7440-57-5 | |
| | Seal ring | Iron (Fe) | Iron (Fe) | 7.690 | 6.991% | 7439-89-6 |
| | | | Nickel (Ni) | 4.100 | 3.727% | 7440-02-0 |
| | | | Cobalt (Co) | 2.691 | 2.446% | 7440-48-4 |
| | Silver solder | Silver (Ag) | 1.801 | 1.637% | 7440-22-4 | |
| | | Copper (Cu) | 0.318 | 0.289% | 7440-50-8 | |
| | Crystal | Crystal | Quartz (SiO ₂) | 3.082 | 2.802% | 14808-60-7 |
| Electrode | | Silver (Ag) | 0.020 | 0.018% | 7440-22-4 | |
| | | Nickel (Ni) | 0.00017 | 0.000153% | 7440-02-0 | |
| Adhesive | | Silver (Ag) | 0.0004 | 0.00036% | 7440-22-4 | |
| | | Silicon (Si) | 0.00013 | 0.00012% | 7440-21-3 | |
| TOTAL | | | 110.000 | 100.000% | | |



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