


Date: 4/16/2021

Material Number: SI8274GB1-IM1

Pkg Config.: PK1698

| Detailed Device Composition  | | | | | | | | | |
|---|----------------------|----------------------|----------------------------|---------------|---------------------|----------------------|-----------------|--------------------|-------------------|
| No. | Homogeneous Material | Material Weight (mg) | Material Content | CAS Number | Material Weight (%) | Material Weight (mg) | ppm of Material | Wt % of Total Unit | ppm of Total Unit |
| 1 | Mold Compound | 1.35 | Carbon Black | 1333-86-4 | 0.400 | 0.005 | 4000 | 0.0119 | 119 |
| | | | Epoxy Resin (Proprietary) | Proprietary | 15.000 | 0.202 | 150000 | 0.4456 | 4456 |
| | | | Phenolic Resin | 9003-35-4 | 9.600 | 0.130 | 96000 | 0.2852 | 2852 |
| | | | Silica | 7631-86-9 | 75.000 | 1.012 | 750000 | 2.2282 | 22282 |
| 2 | Mold Compound | 27.06 | Carbon Black | 1333-86-4 | 0.400 | 0.108 | 4000 | 0.2382 | 2382 |
| | | | Epoxy Resin (Proprietary) | Proprietary | 7.000 | 1.894 | 70000 | 4.1686 | 41686 |
| | | | Metal Hydroxide | Proprietary | 2.000 | 0.541 | 20000 | 1.1910 | 11910 |
| | | | Phenol Resin (Proprietary) | Proprietary | 5.000 | 1.353 | 50000 | 2.9776 | 29776 |
| | | | Silica (Amorphous) B | 60676-86-0 | 85.600 | 23.163 | 856000 | 50.9757 | 509757 |
| 3 | Leadframe | 14.40 | Chromium | 7440-47-3 | 0.246 | 0.035 | 2460 | 0.0780 | 780 |
| | | | Copper | 7440-50-8 | 97.933 | 14.102 | 979330 | 31.0351 | 310351 |
| | | | Gold | 7440-57-5 | 0.029 | 0.004 | 290 | 0.0092 | 92 |
| | | | Nickel | 7440-02-0 | 1.279 | 0.184 | 12790 | 0.4053 | 4053 |
| | | | Palladium | 7440-05-3 | 0.049 | 0.007 | 490 | 0.0155 | 155 |
| | | | Tin | 7440-31-5 | 0.247 | 0.036 | 2470 | 0.0783 | 783 |
| | | | Zinc | 7440-66-6 | 0.217 | 0.031 | 2170 | 0.0688 | 688 |
| 4 | Plating - External | 1.50 | 1 TEST MATERIAL | 0000000 | 100.000 | 1.500 | 1000000 | 3.3011 | 33011 |
| 5 | Bond Wire | 0.20 | Gold | 7440-57-5 | 99.000 | 0.198 | 990000 | 0.4357 | 4357 |
| | | | Palladium | 7440-05-3 | 1.000 | 0.002 | 10000 | 0.0044 | 44 |
| 6 | Die Attach Epoxy | 0.21 | Acrylate monomer 10089 | TS ref# 10089 | 5.000 | 0.010 | 50000 | 0.0231 | 231 |
| | | | Acrylate monomer 10123 | TS ref# 10123 | 5.000 | 0.010 | 50000 | 0.0231 | 231 |
| | | | Acrylate monomer 10283 | TS ref# 10283 | 5.000 | 0.010 | 50000 | 0.0231 | 231 |
| | | | Bismaleimide monomer | TS ref# 10049 | 5.000 | 0.010 | 50000 | 0.0231 | 231 |
| | | | Silver | 7440-22-4 | 80.000 | 0.168 | 800000 | 0.3697 | 3697 |
| 7 | Die | 0.24 | Aluminum | 7429-90-5 | 0.163 | 0.000 | 1630 | 0.0009 | 9 |
| | | | Copper | 7440-50-8 | 0.001 | 0.000 | 10 | 0.0000 | 0 |
| | | | Silicon | 7440-21-3 | 99.726 | 0.239 | 997260 | 0.5267 | 5267 |
| | | | Tungsten | 7440-33-7 | 0.110 | 0.000 | 1100 | 0.0006 | 6 |

| | | | | | | | | | |
|---|---------------------|-------|----------|-----------|--------|-------|--------|----------|---------|
| 8 | Die | 0.48 | Aluminum | 7429-90-5 | 0.163 | 0.001 | 1630 | 0.0017 | 17 |
| | | | Copper | 7440-50-8 | 0.001 | 0.000 | 10 | 0.0000 | 0 |
| | | | Silicon | 7440-21-3 | 99.726 | 0.479 | 997260 | 1.0534 | 10534 |
| | | | Tungsten | 7440-33-7 | 0.110 | 0.001 | 1100 | 0.0012 | 12 |
| | Total Unit Weight = | 45.44 | | | | 45.44 | | 100.0000 | 1000000 |