

Date: 4/17/2021

Material Number: EFR32BG13P532F512GM32-DR

Pkg Config.: PK1523

**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        | 1.95                 | Carbon Black               | 1333-86-4   | 0.400               | 0.008                | 4000            | 0.0147             | 147               |
|     |                      |                      | Epoxy Resin (Proprietary)  | Proprietary | 15.000              | 0.292                | 150000          | 0.5528             | 5528              |
|     |                      |                      | Phenolic Resin             | 9003-35-4   | 9.600               | 0.187                | 96000           | 0.3538             | 3538              |
|     |                      |                      | Silica                     | 7631-86-9   | 75.000              | 1.462                | 750000          | 2.7641             | 27641             |
| 2   | Mold Compound        | 32.20                | Carbon Black               | 1333-86-4   | 0.400               | 0.129                | 4000            | 0.2434             | 2434              |
|     |                      |                      | Epoxy Resin (Proprietary)  | Proprietary | 7.000               | 2.254                | 70000           | 4.2601             | 42601             |
|     |                      |                      | Metal Hydroxide            | Proprietary | 2.000               | 0.644                | 20000           | 1.2172             | 12172             |
|     |                      |                      | Phenol Resin (Proprietary) | Proprietary | 5.000               | 1.610                | 50000           | 3.0429             | 30429             |
|     |                      |                      | Silica (Amorphous) B       | 60676-86-0  | 85.600              | 27.563               | 856000          | 52.0945            | 520945            |
| 3   | Die Attach Epoxy     | 1.19                 | Acrylic Copolymer          | Proprietary | 15.000              | 0.178                | 150000          | 0.3374             | 3374              |
|     |                      |                      | Epoxy Resin A              | Proprietary | 7.000               | 0.083                | 70000           | 0.1574             | 1574              |
|     |                      |                      | Epoxy Resin B              | 126-80-7    | 14.000              | 0.167                | 140000          | 0.3149             | 3149              |
|     |                      |                      | Phenol Resin (Proprietary) | Proprietary | 14.000              | 0.167                | 140000          | 0.3149             | 3149              |
|     |                      |                      | SiO2 Filler                | 7631-86-9   | 50.000              | 0.595                | 500000          | 1.1246             | 11246             |
| 4   | Leadframe            | 15.00                | Chromium                   | 7440-47-3   | 0.246               | 0.037                | 2460            | 0.0697             | 697               |
|     |                      |                      | Copper                     | 7440-50-8   | 97.933              | 14.690               | 979330          | 27.7640            | 277640            |
|     |                      |                      | Gold                       | 7440-57-5   | 0.029               | 0.004                | 290             | 0.0082             | 82                |
|     |                      |                      | Nickel                     | 7440-02-0   | 1.279               | 0.192                | 12790           | 0.3626             | 3626              |
|     |                      |                      | Palladium                  | 7440-05-3   | 0.049               | 0.007                | 490             | 0.0139             | 139               |
|     |                      |                      | Tin                        | 7440-31-5   | 0.247               | 0.037                | 2470            | 0.0700             | 700               |
|     |                      |                      | Zinc                       | 7440-66-6   | 0.217               | 0.033                | 2170            | 0.0615             | 615               |
| 5   | Bond Wire            | 0.14                 | Copper                     | 7440-50-8   | 96.550              | 0.135                | 965500          | 0.2555             | 2555              |
|     |                      |                      | Gold                       | 7440-57-5   | 0.350               | 0.000                | 3500            | 0.0009             | 9                 |
|     |                      |                      | Palladium                  | 7440-05-3   | 3.100               | 0.004                | 31000           | 0.0082             | 82                |
| 6   | Die                  | 2.43                 | Silicon                    | 7440-21-3   | 99.800              | 2.425                | 998000          | 4.5835             | 45835             |
|     |                      |                      | Silicon Dioxide            | 60676-86-0  | 0.200               | 0.005                | 2000            | 0.0092             | 92                |
|     | Total Unit Weight =  | 52.91                |                            |             |                     | 52.91                |                 | 100.0000           | 1000000           |