



## Material Content Data Sheet



| <b>Sales Product Name</b> |                    | BTM7745G       |                       | <b>Issued</b>  |                        | 29. August 2013 |                          |              |
|---------------------------|--------------------|----------------|-----------------------|----------------|------------------------|-----------------|--------------------------|--------------|
| <b>MA#</b>                |                    | MA000778420    |                       |                |                        |                 |                          |              |
| <b>Package</b>            |                    | PG-DSO-36-29   |                       | <b>Weight*</b> |                        | 616.28 mg       |                          |              |
| Construction Element      | Material Group     | Substances     | CAS#<br>if applicable | Weight<br>[mg] | Average<br>Mass<br>[%] | Sum<br>[%]      | Average<br>Mass<br>[ppm] | Sum<br>[ppm] |
| chip                      | inorganic material | silicon        | 7440-21-3             | 3.155          | 0.51                   | 0.51            | 5120                     | 5120         |
| leadframe                 | inorganic material | phosphorus     | 7723-14-0             | 0.055          | 0.01                   |                 | 89                       |              |
|                           | non noble metal    | zinc           | 7440-66-6             | 0.220          | 0.04                   |                 | 356                      |              |
|                           | non noble metal    | iron           | 7439-89-6             | 4.391          | 0.71                   |                 | 7126                     |              |
| wire                      | non noble metal    | copper         | 7440-50-8             | 178.313        | 28.93                  | 29.69           | 289338                   | 296909       |
|                           | noble metal        | gold           | 7440-57-5             | 0.469          | 0.08                   |                 | 760                      |              |
|                           | non noble metal    | aluminium      | 7429-90-5             | 1.277          | 0.21                   | 0.29            | 2071                     | 2831         |
| encapsulation             | organic material   | carbon black   | 1333-86-4             | 0.838          | 0.14                   |                 | 1360                     |              |
|                           | plastics           | epoxy resin    | -                     | 59.912         | 9.72                   |                 | 97216                    |              |
|                           | inorganic material | silicondioxide | 60676-86-0            | 358.217        | 58.12                  | 67.98           | 581257                   | 679833       |
| leadfinish                | non noble metal    | tin            | 7440-31-5             | 4.833          | 0.78                   | 0.78            | 7843                     | 7843         |
| plating                   | noble metal        | silver         | 7440-22-4             | 2.839          | 0.46                   | 0.46            | 4607                     | 4607         |
| glue                      | plastics           | epoxy resin    | -                     | 0.308          | 0.05                   |                 | 500                      |              |
|                           | noble metal        | silver         | 7440-22-4             | 1.452          | 0.24                   | 0.29            | 2357                     | 2857         |
| *deviation                | < 10%              |                |                       |                |                        | Sum in total:   | 100.00                   | 1000000      |

### Important Remarks:

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