



## Material Content Data Sheet



Halogen-Free

|                           |                |                |              |
|---------------------------|----------------|----------------|--------------|
| <b>Sales Product Name</b> | AIMW120R060M1H | <b>Issued</b>  | 17. May 2021 |
| <b>MA#</b>                | MA005417742    |                |              |
| <b>Package</b>            | PG-TO247-3-41  | <b>Weight*</b> | 6047.25 mg   |

| Construction Element | Material Group     | Substances     | CAS# if applicable | Weight [mg] | Average Mass [%] | Sum [%] | Average Mass [ppm] | Sum [ppm] |
|----------------------|--------------------|----------------|--------------------|-------------|------------------|---------|--------------------|-----------|
| chip                 | inorganic material | siliconcarbide | 409-21-2           | 2.646       | 0.04             | 0.04    | 438                | 438       |
| leadframe            | inorganic material | phosphorus     | 7723-14-0          | 0.159       |                  |         | 26                 |           |
|                      | non noble metal    | iron           | 7439-89-6          | 0.530       | 0.01             |         | 88                 |           |
|                      | non noble metal    | copper         | 7440-50-8          | 529.068     | 8.75             | 8.76    | 87489              | 87603     |
| wire                 | non noble metal    | aluminium      | 7429-90-5          | 5.601       | 0.09             | 0.09    | 926                | 926       |
| encapsulation        | organic material   | carbon black   | 1333-86-4          | 20.046      | 0.33             |         | 3315               |           |
|                      | plastics           | epoxy resin    | -                  | 380.868     | 6.30             |         | 62982              |           |
|                      | inorganic material | silicondioxide | 60676-86-0         | 1,603.657   | 26.52            | 33.15   | 265187             | 331484    |
| leadfinish           | non noble metal    | tin            | 7440-31-5          | 31.874      | 0.53             | 0.53    | 5271               | 5271      |
| plating              | non noble metal    | nickel         | 7440-02-0          | 29.065      | 0.48             | 0.48    | 4806               | 4806      |
| solder               | non noble metal    | antimony       | 7440-36-0          | 0.126       |                  |         | 21                 |           |
|                      | noble metal        | silver         | 7440-22-4          | 0.314       | 0.01             |         | 52                 |           |
|                      | non noble metal    | tin            | 7440-31-5          | 0.818       | 0.01             | 0.02    | 135                | 208       |
| heatspreader         | inorganic material | phosphorus     | 7723-14-0          | 1.033       | 0.02             |         | 171                |           |
|                      | non noble metal    | iron           | 7439-89-6          | 3.442       | 0.06             |         | 569                |           |
|                      | non noble metal    | copper         | 7440-50-8          | 3,438.006   | 56.85            | 56.93   | 568524             | 569264    |
| *deviation           | < 10%              | Sum in total:  |                    |             |                  | 100.00  |                    | 1000000   |

### Important Remarks:

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This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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