



## Material Content Data Sheet



| <b>Sales Product Name</b> |                    |                       |                    | KP229L2920    |                  | <b>Issued</b>  |                    | 25. January 2018 |  |
|---------------------------|--------------------|-----------------------|--------------------|---------------|------------------|----------------|--------------------|------------------|--|
| <b>MA#</b>                |                    |                       |                    | MA001640144   |                  |                |                    |                  |  |
| <b>Package</b>            |                    |                       |                    | PG-D50F-8-16  |                  | <b>Weight*</b> |                    | 226.02 mg        |  |
| Construction Element      | Material Group     | Substances            | CAS# if applicable | Weight [mg]   | Average Mass [%] | Sum [%]        | Average Mass [ppm] | Sum [ppm]        |  |
| chip                      | inorganic material | silicon               | 7440-21-3          | 12.745        | 5.64             | 5.64           | 56387              | 56387            |  |
| leadframe                 | inorganic material | phosphorus            | 7723-14-0          | 0.009         | 0.00             |                | 41                 |                  |  |
|                           | non noble metal    | zinc                  | 7440-66-6          | 0.037         | 0.02             |                | 164                |                  |  |
|                           | non noble metal    | iron                  | 7439-89-6          | 0.740         | 0.33             |                | 3273               |                  |  |
|                           | non noble metal    | copper                | 7440-50-8          | 30.034        | 13.29            | 13.64          | 132878             | 136356           |  |
| wire                      | noble metal        | gold                  | 7440-57-5          | 0.167         | 0.07             | 0.07           | 741                | 741              |  |
| encapsulation             | organic material   | carbon black          | 1333-86-4          | 0.588         | 0.26             |                | 2600               |                  |  |
|                           | plastics           | silicone resin        | -                  | 17.373        | 7.69             |                | 76865              |                  |  |
|                           | plastics           | epoxy resin           | -                  | 21.305        | 9.43             |                | 94258              |                  |  |
|                           | inorganic material | silicondioxide        | 60676-86-0         | 125.036       | 55.32            | 72.70          | 553200             | 726923           |  |
| leadfinish                | inorganic material | phosphorus            | 7723-14-0          | 0.000         | 0.00             |                | 2                  |                  |  |
|                           | noble metal        | gold                  | 7440-57-5          | 0.020         | 0.01             |                | 88                 |                  |  |
|                           | noble metal        | palladium             | 7440-05-3          | 0.020         | 0.01             |                | 89                 |                  |  |
|                           | non noble metal    | nickel                | 7440-02-0          | 0.196         | 0.09             | 0.11           | 868                | 1047             |  |
| lid attach material       | organic material   | carbon black          | 1333-86-4          | 0.005         | 0.00             |                | 22                 |                  |  |
|                           | inorganic material | silicondioxide        | 60676-86-0         | 0.476         | 0.21             |                | 2106               |                  |  |
|                           | plastics           | epoxy resin           | -                  | 0.500         | 0.22             | 0.43           | 2214               | 4342             |  |
| lid                       | inorganic material | glass fibre           | -                  | 5.716         | 2.53             |                | 25289              |                  |  |
|                           | plastics           | Polyphenylene Sulfide | 26125-40-6         | 8.574         | 3.79             | 6.32           | 37934              | 63223            |  |
| glue                      | inorganic material | titandioxide          | 13463-67-7         | 0.025         | 0.01             |                | 110                |                  |  |
|                           | inorganic material | alumina               | 1344-28-1          | 0.137         | 0.06             |                | 604                |                  |  |
|                           | inorganic material | silicondioxide        | 60676-86-0         | 0.459         | 0.20             |                | 2031               |                  |  |
|                           | plastics           | silicone resin        | -                  | 1.861         | 0.82             | 1.09           | 8236               | 10981            |  |
| *deviation                | < 10%              |                       |                    | Sum in total: |                  | 100.00         |                    | 1000000          |  |

### Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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