



## Material Content Data Sheet



Halogen-Free

|                           |                      |                |              |
|---------------------------|----------------------|----------------|--------------|
| <b>Sales Product Name</b> | XMC1302-T028X0016 AB | <b>Issued</b>  | 10. May 2021 |
| <b>MA#</b>                | MA001589136          |                |              |
| <b>Package</b>            | PG-TSSOP-28-16       | <b>Weight*</b> | 105.97 mg    |

| Construction Element | Material Group     | Substances     | CAS#<br>if applicable | Weight [mg] | Average<br>Mass [%] | Sum [%] | Average<br>Mass<br>[ppm] | Sum [ppm] |
|----------------------|--------------------|----------------|-----------------------|-------------|---------------------|---------|--------------------------|-----------|
| chip                 | inorganic material | silicon        | 7440-21-3             | 1.226       | 1.16                | 1.16    | 11567                    | 11567     |
| leadframe            | inorganic material | phosphorus     | 7723-14-0             | 0.010       | 0.01                |         | 96                       |           |
|                      | non noble metal    | zinc           | 7440-66-6             | 0.041       | 0.04                |         | 385                      |           |
|                      | non noble metal    | iron           | 7439-89-6             | 0.815       | 0.77                |         | 7694                     |           |
|                      | non noble metal    | copper         | 7440-50-8             | 33.103      | 31.24               | 32.06   | 312392                   | 320567    |
| wires                | noble metal        | palladium      | 7440-05-3             | 0.002       |                     |         | 18                       |           |
|                      | non noble metal    | copper         | 7440-50-8             | 0.190       | 0.18                | 0.18    | 1796                     | 1814      |
| encapsulation        | organic material   | carbon black   | 1333-86-4             | 0.203       | 0.19                |         | 1914                     |           |
|                      | plastics           | epoxy resin    | -                     | 7.908       | 7.46                |         | 74633                    |           |
|                      | inorganic material | silicondioxide | 60676-86-0            | 59.483      | 56.14               | 63.79   | 561340                   | 637887    |
| leadfinish           | non noble metal    | tin            | 7440-31-5             | 1.539       | 1.45                | 1.45    | 14528                    | 14528     |
| plating              | noble metal        | silver         | 7440-22-4             | 1.002       | 0.95                | 0.95    | 9454                     | 9454      |
| glue                 | plastics           | epoxy resin    | -                     | 0.111       | 0.10                |         | 1046                     |           |
|                      | noble metal        | silver         | 7440-22-4             | 0.332       | 0.31                | 0.41    | 3137                     | 4183      |
| *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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