




| Product                          |               |   |                  |            |
|----------------------------------|---------------|---|------------------|------------|
| Mfr Item Number                  | Mfr Item Name | Version   | Mfr Site         | Date       |
| STM32F030C8T6<br>STM32E030C8T6TR | E75B*440XXX1  | B   | 9991             | 2018-03-05 |
| Amount                           | UoM           | Unit type   | ST ECOPACK Grade |            |
| 180.00                           | mg            | Each  | ECOPACK® 2       |            |
|                                  | Comment       | ECOPACK® 2 is STMicroelectronics trade name for ROHS compliant device without Brominated and Chlorinated compound (900ppm) and without Antimony oxide flame retardant ( in each organic material) |                  |            |

| Manufacturing information |                     |                      |         |   |
|---------------------------|---------------------|----------------------|---------|---|
| J-STD-020 MSL Rating      | Classification Temp | Nbr of Reflow Cycles |         | <br>life.augmented |
| 3                         | 260                 | 3                    |         |   |
| bulk Solder Termination   | Terminal Plating    | Terminal Base Alloy  | Comment |   |
| Tin                       | NAC                 | Copper Alloy         |         |   |

| Package Designator | Size                                   | Nbr of instances | Shape  |  |
|--------------------|--|------------------|--------|--|
| QFP                | 7x7x1.4                                | 48               | L Bend |  |
| Comment            | Package : 5B LQFP 48 7x7x1.4 1 0110596 |                  |        |  |

| QueryList : RoHS Directive 2011/65/EU-July 2011 – Annex II amended by Directive 2015/863-April 2015  |             |
|--|-------------|
| Query  | Response    |
| 1 - Product(s) meets EU RoHS requirement without any exemptions  | TRUE        |
| 2 - Product(s) meets EU RoHS requirements except lead in solder and this usage may qualify under the lead in solder '7b' exemption (other selected exemptions may apply) | FALSE       |
| 3 - Product(s) meets EU RoHS requirements by application of the selected exemption(s)  | FALSE       |
| 4 - Product(s) does not meet EU RoHS requirements and is not under exemptions  | FALSE       |
| Exemption Id.  | Description |
|  |             |

| QueryList : REACH-12th January 2017  |                         |                        |             |                |
|--|-------------------------|------------------------|-------------|----------------|
| Query  |                         |                        |             | Response       |
| 1 - Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH |                         |                        |             | TRUE           |
| CategoryLevel_Name   | CategoryLevel_Threshold | amount in product (mg) | Application | ppm in product |
|  |                         |                        |             |                |

| Material Composition Declaration :<br>note : Substance present with less 0.001mg will not be declared in this document |                                 |         |     |          |                    | Mfr Item Name         | E75B*440XXX1 |        |        |     | 6001500.0                                   | 974860.5                       |
|--|---------------------------------|---------|-----|----------|--------------------|-----------------------|--------------|--------|--------|-----|---|--------------------------------|
| Homogeneous Material   | Material Group                  | Mass    | UoM | Level    | Substance Category | Substance             | CAS          | Exempt | Mass   | UoM | Concentration in homogeneous material (ppm) | Concentration in product (ppm) |
| Die or dies  | M-011 Other inorganic materials | 5.370   | mg  | supplier | die                | Silicon (Si)          | 7440-21-3    |        | 5.151  | mg  | 959218                                      | 28617                          |
|  |                                 |         |     | supplier | metallization      | Aluminium (Al)        | 7429-90-5    |        | 0.015  | mg  | 2793  | 83                             |
|  |                                 |         |     | supplier | metallization      | Copper (Cu)           | 7440-50-8    |        | 0.074  | mg  | 13780                                       | 411                            |
|  |                                 |         |     | supplier | metallization      | Cobalt (Co)           | 7440-48-4    |        | 0.014  | mg  | 2607  | 78                             |
|  |                                 |         |     | supplier | metallization      | Titanium (Ti)         | 7440-32-6    |        | 0.004  | mg  | 745   | 22                             |
|  |                                 |         |     | supplier | metallization      | Tungsten (W)          | 7440-33-7    |        | 0.008  | mg  | 1490  | 44                             |
|  |                                 |         |     | supplier | Passivation        | Silicon Nitride       | 12033-89-5   |        | 0.010  | mg  | 1862  | 56                             |
|  |                                 |         |     | supplier | Passivation        | Silicon Oxide         | 7631-86-9    |        | 0.094  | mg  | 17505                                       | 522                            |
| Sumitomo G631SH  | M-011 Other inorganic materials | 104.526 | mg  | supplier | Molding Compound   | Epoxy Resin A         | Proprietary  |        | 1.000  | mg  | 10000                                       | 5556                           |
|  |                                 |         |     | supplier | Molding Compound   | Epoxy Resin B         | Proprietary  |        | 1.000  | mg  | 10000                                       | 5556                           |
|  |                                 |         |     | supplier | Molding Compound   | Phenol Resin          | Proprietary  |        | 2.300  | mg  | 23000                                       | 12778                          |
|  |                                 |         |     | supplier | Molding Compound   | Carbon Black          | 1333-86-4    |        | 0.300  | mg  | 3000  | 1667                           |
|  |                                 |         |     | supplier | Molding Compound   | Silica Fused          | 60676-86-0   |        | 84.526 | mg  | 800000                                      | 444444                         |
|  |                                 |         |     | supplier | Molding Compound   | Silica Fused          | 7631-86-9    |        | 15.000 | mg  | 150000                                      | 83333                          |
|  |                                 |         |     | supplier | Molding Compound   | Silica, crystalline * | 14808-60-7   |        | 0.400  | mg  | 4000  | 2222                           |
| Leadframe  | M-011 Other inorganic materials | 62.000  | mg  | supplier | Leadframe          | Nickel                | 7440-02-0    |        | 1.915  | mg  | 30880                                       | 10636                          |
|  |                                 |         |     | supplier | Leadframe          | Silicon               | 7440-21-3    |        | 0.403  | mg  | 6500  | 2239                           |
|  |                                 |         |     | supplier | Leadframe          | Magnesium             | 7439-95-4    |        | 0.097  | mg  | 1565  | 539                            |
|  |                                 |         |     | supplier | Leadframe          | Silver                | 7440-22-4    |        | 3.906  | mg  | 63000                                       | 21700                          |
|  |                                 |         |     | supplier | Leadframe          | Copper                | 7440-50-8    |        | 55.679 | mg  | 898055                                      | 309330                         |
|  |                                 |         |     | supplier | Leadframe          | Silver Powder         | 7440-22-4    |        | 2.805  | mg  | 850000                                      | 15583                          |
| Sumitomo CRM-1076WA  | M-011 Other inorganic materials | 3.305   | mg  | supplier | Epoxy              | Epoxy Resin A         | 9003-36-5    |        | 0.182  | mg  | 55000                                       | 1008                           |
|  |                                 |         |     | supplier | Epoxy              | Epoxy Resin B         | Trade Secret |        | 0.099  | mg  | 30000                                       | 550                            |
|  |                                 |         |     | supplier | Epoxy              | Diluent A             | Trade Secret |        | 0.033  | mg  | 10000                                       | 183                            |
|  |                                 |         |     | supplier | Epoxy              | Diluent B             | Trade Secret |        | 0.099  | mg  | 30000                                       | 550                            |
|  |                                 |         |     | supplier | Epoxy              | Hardener              | Trade Secret |        | 0.066  | mg  | 20000                                       | 367                            |
|  |                                 |         |     | supplier | Epoxy              | Dicyandiamide         | 461-58-5     |        | 0.008  | mg  | 2500  | 46                             |
|  |                                 |         |     | supplier | Epoxy              | Organic peroxide      | Proprietary  |        | 0.013  | mg  | 4000  | 73                             |
| Wire   | M-011 Other inorganic materials | 0.400   | mg  | supplier | Wire               | Gold                  | 7440-57-5    |        | 0.400  | mg  | 1000000                                     | 2222                           |
| Matte Sn   | M-011 Other inorganic materials | 4.400   | mg  | supplier | Matte Sn           | Tin(Sn)               | 7440-31-5    |        | 4.400  | mg  | 1000000                                     | 24444                          |