

| Product | | | | |
|-----------------|---------------|---------|-----------|------------------|
| Mfr Item Number | Mfr Item Name | Version | Mfr Site | Date |
| ESDL20-1BF4 | KZJF*6TAN1B3 | A | SH1A | 2017-09-14 |
| | Amount | UoM | Unit type | ST ECOPACK Grade |
| | 0.120 | mg | Each | ECOPACK* 2 |

| Manufacturing information | | | |
|---------------------------|---------------------|----------------------|---------|
| J-STD-020 MSL Rating | Classification Temp | Nbr of Reflow Cycles | |
| Not Applicable | Not Applicable | Not Applicable | |
| bulk Solder Termination | Terminal Plating | Terminal Base Alloy | Comment |
| Not Applicable | Not Applicable | Not Applicable | |



| Package Designator | Size | Nbr of instances | Shape |
|--------------------|------------------------|------------------|-------|
| BARE DIE | 0.6 - 0.3 - 0.3 | 2 | flat |
| Comment | Package: CSPS BUMPLESS | | |

| 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 |
| | |

| Query : California Prop65 list, dated 27th January 2017 | | | |
|--|------------------------|-------------|----------------|
| Query | | | Response |
| 1 - The product does not contain identified substance from California Prop 65 List, no exposure to consumers is foreseen | | | FALSE |
| 2 - The product is containing below substance(s) from California Prop 65 List, no exposure to consumers is foreseen | | | TRUE |
| Substance | amount in product (mg) | Application | ppm in product |
| Nickel | 0.001 | UBM | 8333 |

| 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 | | | | | Mfr Item Name | KZIF*GTAN1B3 | | | | | | |
|----------------------------------|---------------------------|-------|-----|----------|--------------------|----------------|-----------|--------|--------|-----|---|--------------------------------|
| Homogeneous Material | Material Group | Mass | UoM | Level | Substance Category | Substance | CAS | Exempt | Mass | UoM | Concentration in homogeneous material (ppm) | Concentration in product (ppm) |
| Die | Other inorganic materials | 0.120 | mg | supplier | die | Silicon (Si) | 7440-21-3 | | 0.112 | mg | 936667 | 936667 |
| | | | | supplier | metallisation | Aluminium (Al) | 7429-90-5 | | 0.003 | mg | 25000 | 25000 |
| | | | | supplier | passivation | Silicon Oxide | 7631-86-9 | | 0.002 | mg | 16667 | 16667 |
| | | | | supplier | UBM | Copper (Cu) | 7440-50-8 | | 0.0011 | mg | 9167 | 9167 |
| | | | | supplier | UBM | Titanium (Ti) | 7440-32-6 | | 0.0002 | mg | 1667 | 1667 |
| | | | | supplier | UBM | Gold (Au) | 7440-57-5 | | 0.0003 | mg | 2500 | 2500 |
| | | | | supplier | UBM | Nickel (Ni) | 7440-02-0 | | 0.0010 | mg | 8332 | 8332 |