

***PPAP***

***Technical Specification***

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| --- | --- | --- | --- |
| **Revision #** | **Date** | **Changes** | **Responsible(s)** |
| **00** | **14/03/2018** | **New Release** | **F. Poggi** |
| **01** | **25/02/2020** | **Added:** Technical Bulletin, Certificate of Conformance in Class 1 (page 3);  **Added Packaging Reference in Classes 1 and 2 (page 3);**  **Added Statistical Process Control (SPC) in Classes 2 and 3 (pages 3 and 4);** | **F. Poggi** |
| **02** | **08/09/2025** | **Chapter 4 (pages 3 and 4): Black and Grey Lists removed, new** ZPSF-2024-0020 Product Compliance entered**;**  **Chapter 4 (pages 3 and 4): MSA entered:** | **F. Poggi** |
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# PURPOSE

The purpose of this specification is to report all the documents required by ZAPI GROUP (hereinafter called ZAPI) for the PPAP submission.

# APPLICABILITY

This document applies to all the ZAPI Suppliers.

# CATEGORIES

|  |  |  |
| --- | --- | --- |
| **Class 1** | **Class 2** | **Class 3** |
| **Catalogue parts** (e.g. bulk material, standard electronic components) | **Parts on ZAPI drawing** (e.g. heatsinks, plastic covers, gaskets, special parts) | **PCB / PCBA**  (printed circuit boards, printed circuit boards assembly) |

# DOCUMENTATION REQUIRED

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| **Class** | **Documents** | |
| 1 | • Samples  • ZPSF-2024-0020 Product Compliance (Prohibition and Declaration of Substances)  • Technical Bulletin (e.g. datasheet)  • Certificate of Conformance (CoC)  • Packaging References | |
| 2 | • Samples  • ZPSF-2024-0020 Product Compliance (Prohibition and Declaration of Substances)  • Part Submission Warrant (PSW)  • Certificate of Conformance (CoC)  • Process Flowchart  • Process FMEA  • Process Control Plan  • Dimensional Inspection  • Statistical Process Control (SPC)  • Measurement System Analysis (MSA)  • Raw Material Certification  • Chemical Characterization (when applicable e.g. Surface treatments)  • Packaging References | |
| 3 | PCB | • Samples • ZPSF-2024-0020 Product Compliance (Prohibition and Declaration of Substances)  • Part Submission Warrant (PSW)  • Certificate of Conformance (CoC)  • Process Flowchart • Process FMEA • Process Control Plan • Dimensional Inspection  • Statistical Process Control (SPC)  • Measurement System Analysis (MSA) • Plating Thickness Report • Wettability Report • Raw Material Certification |
| PCBA | • Samples • ZPSF-2024-0020 Product Compliance (Prohibition and Declaration of Substances) • Part Submission Warrant (PSW)  • Certificate of Conformance (CoC)  • Process Flowchart • Process FMEA • Process Control Plan  • Measurement System Analysis (MSA)  • Statistical Process Control (SPC)  • In-Circuit Test Coverage (Components/Nets) |

**Note**: in special cases, any additional information may be required by ZAPI according to ZPSF- 2017-0008 – Supplier Quality Book.