

**Production Process and Product Approval (PPA)**

**PPA Submission Levels  
Record Requirements**

PPA Item	Document Name	Level 1	Level 2	Level 3	Level 4	Level 5	Description
0	Production Process and Product approval (PPA)	S	S	S	S	S	Supplier certification / attestation of Product and Process Compliance (aka PSW or Warrant)
1.1	Dimensional Inspection Results (EOC)	R	S	S	S	S	Results of measurements of features and dimensions defined by design
1.2	Functional test (EOC)	R	R	S	S	S	Evidence of compliance with Bosch drawings, specifications, or other requirements as applicable
1.3	Material or Part Performance Certifications (EOC)	*	R	R	S	S	When explicitly required by Bosch design documentation, provide Material Certifications for required agency approval or standards compliance.
1.4	Haptics	*	*	*	*	S	
1.5	Acoustics	*	*	*	*	S	
1.6	Odors	*	*	*	*	S	
1.7	Appearance Approval Report (applicable to appearance parts)	S	S	S	S	S	Documented analysis of appearance and other qualitative attributes, Boundary Book
1.8	Surface Check	*	*	*	*	S	
1.9	EMC Test	*	*	*	*	S	
1.10	Reliability Test	*	*	*	*	S	
2	ISIR First Samples (typically qty (3))	*	S	S	S	S	Part(s) sample agreed by all parties to be the standard for quality against which future production will be checked against
3	Design Records / Technical Specifications	*	*	R	S	S	Records of design documentation such as drawings, specifications, or bills of material
4	Design FMEA not applicable for HAWA / Trade Goods	*	*	R	R	S	Design Failure Modes and Effects Analysis
5	Design Release	*	*	*	*	*	
6	Evidence of Required Regulatory Compliance (if required)	S	S	S	S	S	Documentation indicating compliance with any regulatory requirements, e.g. CE, UL, PALD, RoHS, Prop 65
7	Restricted Material compliance to Bosch Norm N2580-1	S	S	S	S	S	<a href="http://purchasing.bosch.com/en/de/info/download/downloads.html">http://purchasing.bosch.com/en/de/info/download/downloads.html</a>
8	Software Validation Report (EOC)	*	*	*	R	S	
9	Process FMEA	*	*	R	S	S	Process Failure Modes and Effects Analysis
10	Process Flow Diagrams	*	*	R	S	S	Process flow diagram outline manufacturing process of product
11	Control Plan	*	R	R	S	S	Manufacturing process control plan per AIAG documentation
12	Initial Process Studies (Cp, Cpk, etc.) Special Characteristics	*	*	R	R	S	Process capability studies of critical dimensions or features as defined by Supplier and/or Bosch
13	Achievement of Special Characteristics	*	*	*	*	*	
14	Checking Aids Certifications	*	*	R	R	S	Functional gauging, paint chips, or other items used to check the part
15	Measurement System Analysis (MSA)	*	*	*	R	S	Analysis of measurement capability including repeatability and reproducibility analysis
16	Tooling List	*	*	*	*	*	
17	Confirmation of agreed capacity, R@Rate	*	*	*	*	*	
18	Written Self assessment	*	*	*	*	*	
19	Parts History	*	*	*	*	*	
20	Packaging Characteristics (Weights and Dimensions)	*	R	R	S	S	Outside dimensions of the packaged product (length, width, and height) and gross weight as packaged.
21	PPA Status of Sub-Tier Suppliers	*	R	R	S	S	
22	Approval of coating systems	*	*	*	*	*	
23	Certificate of Origin	S	S	S	S	S	Certification of country of origin
24	OTHER						Miscellaneous / unique requirements agreed to with supplier.

**KEY:**  
 S = Shall Submit to Bosch and retain copy at appropriate locations  
 R = Supplier retains at appropriate locations and make readily available to Bosch upon request  
 \* = Not Required for this Level

**INSTRUCTIONS:**  
 All documents marked "S" should be submitted as early as possible. The documents have been grouped into steps of the part set up process (noted in "When" column). A step cannot be considered complete until the "S" documents for that step and all previous steps have been submitted to Bosch. If documents required for submission are not received by original requested due date the request will be elevated to the appropriate Commodity Manager for assistance.