## GENERIC PRODUCTION PART APPROVAL PROCESS (PPAP)

Submission Checklist

15 April 97

The following guideline/checklist shall be used for PPAP level 1-5 submissions. The default level is level 3 unless otherwise specified by the customer.

Supplier 2 Supplier	Part Ni	Part Number: Reason for Submission:			
Required Included	Reason				
(Y/N) (Y/N)	A.	EXT	PSW Level:		
	_	1. 2.	Neatly Bound and Tabbed (e.g. 3-Ring Binder) Label With:		
			<ul> <li>a. Supplier Name/Location/Supplier Code(if applicable)</li> <li>b. Customer Assigned Tracking Number (if known)</li> <li>c. Customer/Motorola Part Number</li> <li>d. Part/Family Description</li> <li>e. Submission Date</li> </ul>		
	В.	INT	ERIOR (PPAP Requirements)		
	<u> </u>	1.	PPAP Warrant (CFG-1001)		
			<ul><li>a. Table of Contents</li><li>b. Purpose/Background Statement</li><li>c. PPAP Checklist</li></ul>		
	<u>—</u>	2.	Appearance Approval Report (CFG-1002)		
	<u> </u>	3.	Sample Product Master Samples (Qty:)		
		4.	Design Records		
	_		a. Engineering Specification     b. Other		
		5.	Change Documents		
	<u></u>		a. Change Documentation		
	_		b. Other		
			c. Letters Of Agreement (If applicable)		
			c1. Certification of Design, Construction & Qualification c2. Other		
	<u> </u>	6.	Dimensional Results		
Tabular Summary: Spec Para No. Samples, Pass-Fail Results, Mean, S Values, Normality, Histograms, Cap	td Dev, Min-Max		<ul> <li>a. Tabular Summary Format (Statistical)</li> <li>b. Address Cpks &lt; 1.33 (Customer Critical Characteristics)</li> <li>c. Failures: Customer Approved 8D Reports (as required)</li> </ul>		
		7.	Checking Aids		

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Part Number:	Reason for Submission:	
	8.	Test Results
Electrical Tabular Summary: Spec Para Limits, No. Samples, Pass-Fail Results, M Max Values, Normality, Histograms, Cap	a No., Desc, Spec fean, Std Dev, Min- pability	<ul> <li>a. Tabular Summary of Reliability Test Results</li> <li>b. Product Electrical Tabular Summary</li> <li>c. Address Cpks &lt; 1.33 (Customer Critical Characteristics</li> <li>d. Failures: Customer Approved 8D Reports (as required)</li> </ul>
	9.	Process Flow Chart (High level to Customer's dock)
	10.	FMEA (Design/Process)
		<ul><li>a. Design (supplier designs only)</li><li>b. Process ("Entire" process flow)</li></ul>
	11.	Control Plans
		a. Prototype (Prototype Process Control & Component DV Test Ib. Pre-Launch (Component PV Test Plan) c. Production (Production Process Control & IP Test Plans
	12.	Process Performance (Ppk/Cpk)
		<ul> <li>a. Significant/Critical Processes identified in Control Plan</li> <li>b. Address Ppk/Cpk &lt; 1.67/1.33 (AIAG PPAP Manual)</li> </ul>
	13.	Measurement System Studies (Gage R&R)
		<ul><li>a. SC/CC Product/Process Measuring Equipment</li><li>b. Address R&amp;R's &gt; 10% (AIAG MSA Manual)</li></ul>
	14.	Design Engineering Approval
		<ul><li>a. Product Engineering Approval</li><li>b. Plant Engineering Approval</li></ul>
Other Requirements/Comments:		
	Approvers (Print Nam	<u>Date:</u>
	Customer PPAP Checkl	list Approver
	Motorola PPAP Checkl	ist Approver