



PCN Number: UMCOCT14 Chgnot.doc rev 13 1/14

Product/Process Change Notification (PCN)					
Customer	: DIGI KEY		Date:		
Customer Part # and/or Lot# affected: A3903EEETR-T Originator: J.Hurley Phone: 508-854-5431					
Duration	of Change:	Pern	nanent X Tempora	ry (explain)	
Summary	description of change: Par	rt Change: X	Process Change:	Other:	
Bloomington	ently manufactures the A3903 n, MN, USA using ABCD4 te oelectronics Corporation (UM	chnology. We wil	l add a second source w	afer fab known as	
What is th	ne part or process changing	g from (provid	e details)?		
_	rently manufactures the A390 n, MN, USA using ABCD4 te		fer fab, Polar Semicondu	actor Inc. (PSI),	
	ne part or process changing nd/or function)?	g to (describe t	he anticipated impact	of this change on	
	EEETR-T will have a second s (UMC), Hsinshu, Taiwan usi			lectronics	
Note: Vali Customer.	dation of equivalence within	a specific applic	ation is at the discretio	n of the	





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Is a PPAP update required?	Yes	No X
Is reliability testing required? (If Yes, refer to attached plan)	Yes X	No (explain)

Device: 3903 (7803W) Fab Location: UMC Assy Lot #: 14303636L, 1424887QXAA Package: EJ (MLP), EE (MLP)

Assembly Location: Carsem Lead Finish: 100% Sn

Tracking Number: STR#2714, 2722

Number of Leads: 10

Reason For Qualification: 3903 (7803) - Low Voltage DC Motor Driver

Reliability Qualification Results						
3903 (7803), STR#2714, 2722 Requirements					quirements	
Stress Test	Abv.	Test #	Test Method	Test Conditions	s.s.	Results
Preconditioning	PC	A1	JESD22-A113/ J-STD-020	85°C/60% RH, 168 hrs, Peak Reflow=260°C;	77	0 Rejects
HAST	HAST	A2	JESD22-A110	130°C, 2 ATM, 85% RH, 0, 96 hrs	77	0 Rejects
High Temperature Operating Life	HTRB	B1	JESD22-A108	150°C, 0, 168 hrs	77	0 Rejects
Electrostatic Discharge Human Body Model	НВМ	E2	JESD22-A114	defined in the Test Method H2,		Classification H2, HBM =2,5 kV
Electrostatic Discharge Charged Device Model	CDM	E3	JESD22-C101			Classification = IV, > 1kV
Latch-Up	LU	E4	AEC Q100- 004	Test Conditions, Sampling Size are Class II, defined in the Test Method A		Class II, Level A
Electrical Distributions	ED	E5	AEC Q100- 009	Tri-Temp Electrical Distributions (3 lots)	30 pcs/lot	0 Rejects; Cpk>1.67

This device qualification is considered to be passing all environmental stress evaluations per the Allegro MicroSystems, LLC. 900019 specification and JEDEC JESD47. Approved by:

Expected completion date for internal qualification: Complete			
Expecte	d P	PAP availability date: N/A	
Target implementation date: March 2015			
Estimated date of first shipment: April 2015			
Expected sample availability date: Available Now			
Yes Customer Approval Required:		Date Required:	
No	Χ	Notification Only	





Please note: It is our intention to inform our customer of changes as early as possible. Under Allegro's procedure for product/process change notification, Allegro strives, based on its technical judgment, to provide notification of significant changes that may affect form, fit or function. However, as Allegro cannot ensure evaluation of product/process changes for each and every application; the customer retains responsibility to validate the impact of a change on its application suitability. If samples are needed for validation of a change, requests may be made via the contact information provided herein. Please contact your Account Manager or local Sales contact for any questions. We would kindly request your consideration so we can meet our target date for implementation. Unless both parties agree to extend the implementation date, this change will be implemented as scheduled.

Customer comments/Conditions of Acceptance:					
Approved by: cc: Allegro Sales/Marketing/Quality	Date:	Title:			