

PCN / EOL Notification

Notification Date*: July 12, 2012

Product Change Notification Number: CC121605

Sumitomo

EME-G700

Matte Sn

		t 3-wire Interface Automotiv and Device Enhancement	ve Grade (-40C to 125C)	Serial EEPROM (AT9	3C56A/ AT93C66A) Process	3
Р	Product Identifica	tion:				
Α	II Packages of the	Automotive Temperature C	Grade (-40C to +125C) A	T93C56A/AT93C66A		
		Material / Composition	□ Desig	ın / Firmware	Manufacturing Location	
	Change:	Processing / Manufactur	ing 🗌 Logis	tics	Quality / Reliability	
С	hange Description	on:				
Atmel has performed a process geometry shrink of the Serial EEPROM Automotive Temperature Grade AT93C56A/93C66A device (3-wire interface, 2-Kbit / 4-Kbit densities) from .35 μ to .25 μ . The catalog part number AT93C56A/93C66A will be replaced by AT93C56B/93C66B (see Table 1). The new devices are pin-to-pin and functionally backward compatible with the current AT93C56A/93C66A devices with the following exceptions and enhancements.						
Extended-VCC Operation With a growing number of application segments moving to lower supply voltages, Atmel is developing next generation devices to meet the needs of these lower voltages. These voltage ranges are used by various MCUs, SoCs, and ASICs as process lithographies for such products continue to reduce. To address these voltage requirements, Atmel has designed the AT93C56B/93C66B devices to operate over a 2.5V to 5.5V range versus the previous 2.7V to 5.5V range.						
Conversion to Nickel-Palladium-Gold (NiPdAu) lead finish New devices will be available in the more robust NiPdAu lead finish. The NiPdAu lead finish complies with "green" packaging standards, and all package options remain RoHS compliant and Pb/Halide/Halogen-free. The "P" designation as part of the package designator suffix in the catalog part number identifies the NiPdAu lead finish for Automotive Temperature grade product.						
Р	Package material s	et changes				
Atmel assembly subcontractor, Amkor Technology Philippines, SOIC and TSSOP package material sets will change as noted in the following table:						
	АТР	SOIC		TSSOP		
	Material Set	From	То	From	То	
	Die Attach	Ablebond 84-1 LMISR4	Ablebond 8290	Ablebond 8290	NO Change	
	Wire Diameter	0.8 mil Au	0.6 mil Au	0.8 mil Au	NO Change	

Nitto-GE900S

NiPdAu

Sumitomo

EME-G700

Matte Sn

Mold Compound

Lead Finish

Hitachi CEL-8240HF 10P

NiPdAu

Delivery Options

To further stream line the shipping and handling process, Atmel is eliminating bulk delivery options. The new AT93C56B/93C66B devices will be offered in Tape and Reel only.

Identification Method to Distinguish Change:

NEW catalog part numbers use "B" suffix for the device revision (AT93C56A changes to AT93C56B and AT93C66A changes to AT93C66B). Please refer to Attachment A for part marking scheme.

Table 1.

This is the listing for standard datasheet offering, PCN also applies to all (customer specific) special CAN part numbers that are not listed in the table below:

EOL Part Number	Replacement Part Number	Package	Carrier Type
AT93C56A-10SQ-2.71	AT93C56B-SSPD-T ³	SOIC	T/R, 4K per reel
AT93C56A-10SQ-2.7 SL383 ²	AT93C56B-SSPD-T ³	SOIC	T/R, 4K per reel
AT93C56A-10TQ-2.71	AT93C56B-XPD-T ³	TSSOP	T/R, 5K per reel
AT93C56A-10TQ-2.7 SL383 ²	AT93C56B-XPD-T³	TSSOP	T/R, 5K per reel

Notes:

- 1. Bulk will no longer be an ordering option, Tape and Reel ordering only offered
- 2. SL383 will be eliminated and replaced with "-T" to denote Tape and Reel
- 3. Please reference qualification pack for further details

EOL Part Number	Replacement Part Number	Package	Carrier Type
AT93C66A-10SQ-2.71	AT93C66B-SSPD-T ³	SOIC	T/R, 4K per reel
AT93C66A-10SQ-2.7 SL383 ²	AT93C66B-SSPD-T ³	SOIC	T/R, 4K per reel
AT93C66A-10TQ-2.71	AT93C66B-XPD-T ³	TSSOP	T/R, 5K per reel
AT93C66A-10TQ-2.7 SL383 ²	AT93C66B-XPD-T ³	TSSOP	T/R, 5K per reel

Notes:

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Qualification Data:		☐ Will be available (mm/dd/yr):	☐ Not Applicable
Samples:		☐ TSSOPs will be available (08/10/12)	☐ Not Applicable
Quantifiable Impact on Quality & Reliability:			

Forecasted Availability Date: Now Last Time Buy Date: December 31, 2012

Last Ship Date: June 25, 2013

*All orders placed after the notification date are non-cancellable and non-returnable (NCNR).

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Company:			
Name:			
Title:			
Date:			
Email Address:			
Location:			
Comments:			

Attachment A

