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Bulletin Date: 11/14/	Bulletin Effec	Sulletin Effective Date: 11/14/2014			
Title: Si5338/35/34/	56 CMOS (in-phase) C	Output Impedar	ice Bulletin		
Originator: Len Staller		Phone: 512-5	-532-5235 Dept: Marketing		
Customer Contact: Kathy Hagar		Phone: 512-5	32-5261	Dept: Inside Sales	
Bulletin Details					
<b>Description:</b> Silicon Labs is announcing an errata and bulletin for Si5338/35/34/56 CMOS (in-phase) Output Impedance. When the output driver banks are configured for CMOS (in-phase) format, the typical output impedance of the driver is 55 ohms versus the 50 ohms as stated in the datasheet.					
Note that CMOS single stated in the datashee	e-output and CMOS co et and are <u>not</u> affect	omplimentary n ed.	nodes, the outpu	it impedance is 50 ohi	ms as
Workarounds: The higher output impedance is generally not an issue when driving traces with 50 Ohm characteristic impedance; however, if this is a concern in your application (e.g., trace impedance is expected to be less than 50 ohms) :					
<ol> <li>Use the CMOS</li> <li>Adjust the tra</li> <li>The device do impedance.</li> </ol>	complimentary mod ace impedance to 55 bes have programmat Contact Silicon Labs f	e instead of the ohms de registers the factory technice	e CMOS in-phase at may be used to al support for as:	format mode. o adjust the output sistance with this opti	ion.
<b>Reason:</b> It was discovered that ohms. While this will consider the impact t	t when using CMOS in have minimal impac his could have in the	-phase format, t on most custo ir application/o	the output impe omers, Silicon La design.	edance is slightly abov bs would like custome	/e 50 ers to
Product Identificatio	n:				
All Clock Generat	or products with orde	erable part nun	nbers (OPNs) beg	inning with the follow	ving
OPN prefixes are affected. <u>Please see the datasheet's ordering guide for complete information.</u>					
OPN Examples					
OPN Prefix	Tubes or Trays Orde	ring Option	Tape & Reel Ord	ering Option	
C:E220	(non Tape & Reel op	tion)	(UPN ends in an	"R" suffix)	
212320	515338X-A-GM		515338X-A-GMK	MD	
	SIJJJJOA-AXXXXX-GM		CIESSER CMD		
	SISSON-D-GM		SIJJJJ0A-D-0///K	MD	
Si5334	CIEDON-DXXXXX-GM				
	SIDJJ4X-AXXXXX-GM		SI5334X-AXXXXX-C	JMK	
	S15334X-BXXXXX-GM		SI5334X-BXXXXX-C	лМК	
Si5356A, Si5356B	S15356X-A-GM		S15356X-A-GMR		
	Si5356X-Axxxxx-GM		Si5356X-Axxxxx-C	imr	
	Si5356X-B-GM		Si5356X-B-GMR		
	Si5356X-Bxxxxx-GM		Si5345X-Bxxxxx-C	5MR	
Si5335	Si5335X-Axxxx-GM		Si5335X-Axxxx-C	SMR	

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Si5335X-Bxxxxx-GM

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Key: (1) X = device or functional grade; (2) xxxxx = NVM or customer specific code.

This change is considered a minor change which does not affect form, fit, function, quality, or reliability. The information is being provided as a customer courtesy.

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## **Customer Actions Needed:**

Please see the latest datasheet and associated errata statement. If using CMOS (in-phase) format versus CMOS (complimentary) format, consider the impact a typical 55 ohm output impedance may have on your application/design.

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