Important notice on ams-OSRAM documents

**As part of the acquisition of the non-optical analog/mixed-signal sensor portfolio from ams-OSRAM by Infineon, Infineon is in the process of rebranding all relevant documents.
Due to the large volume of documents, this process will be completed in phases. In the interim, we are providing access to legacy ams-OSRAM documents under the terms of a trademark license agreement.**

The attached document is a legacy ams-OSRAM document and has not been rebranded to reflect the acquisition by Infineon.

Please note that:

Infineon Technologies AG is the owner and provider of the document and the products/services described therein, effective from 1 July 2026, the date of “closing”.

All terms and conditions, including but not limited to warranties, liabilities, and intellectual property rights, are now governed by Infineon's policies and agreements.

All products described in these documents retain their original qualifications and certifications. Infineon confirms that no changes will be made to the products that would affect their compliance with relevant standards, regulations, or certifications.

Contact:

Infineon Technologies AG
Am Campeon 1-15
85579 Neubiberg
Germany

© 2026 Infineon Technologies AG
All Rights Reserved.
Email: erratum@infineon.com

Product Document

Published by
ams OSRAM Group

AS5510

Errata Document of Datasheet [v1-07] 2015-Feb-27

This Errata Sheet is valid for AS5510 integrated circuits. It is only valid for parts with the datecodes listed below. Parts with other datecodes are not affected.

Deviation 1

Pin A1 indicator marking

Affected Parts:	Ordering #	Datecode#	Datecode#4-character
	AS5510-DWLT AS5510-DWLM	1033JAH	B32H

Description:

All parameters are according to the AS5510_Datasheet, Rev1-23 except the Pin A1 indicator marking position. Details are shown in Figure 1.

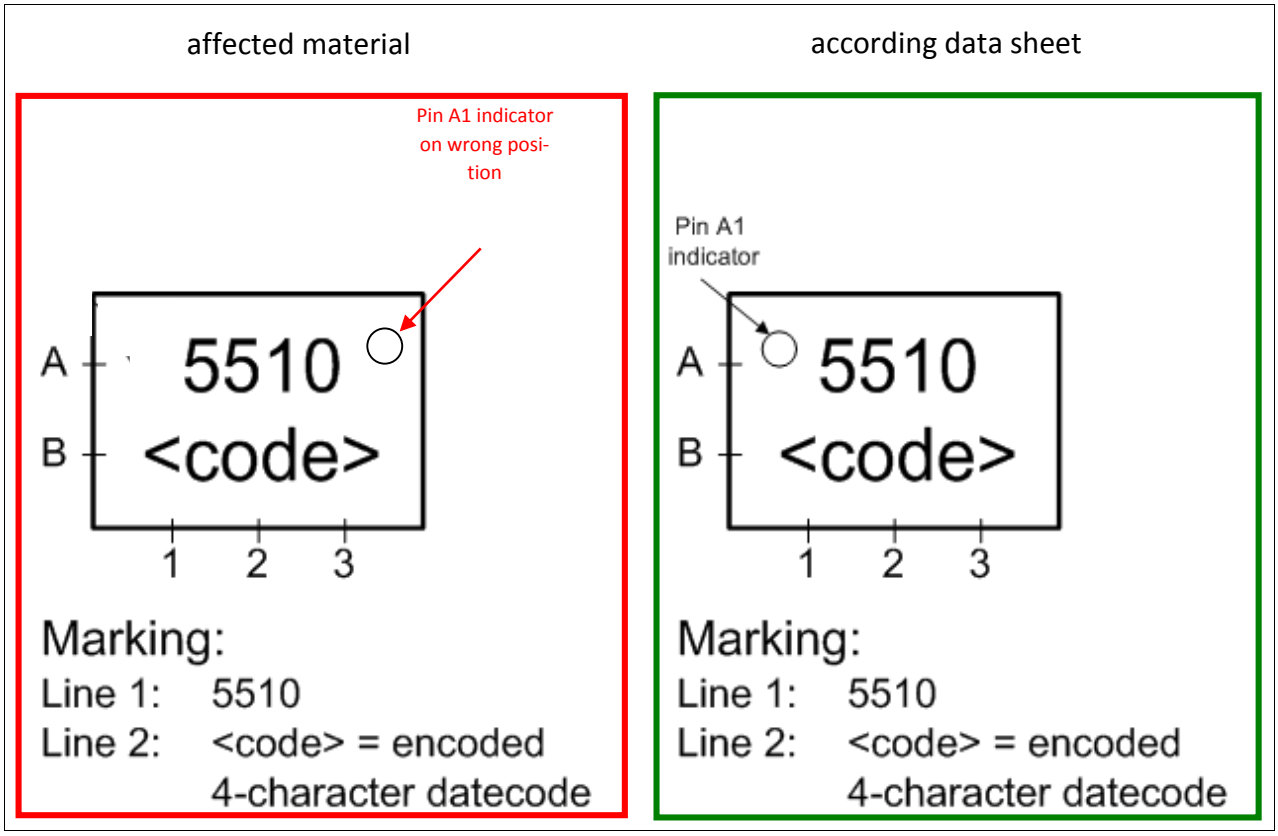


Figure 1: Pin A1 Indicator Marking

Workaround:

Consider for placing the affected parts.

Deviation 2

Test pin issue

Affected Parts:	Ordering #	Datecode#	Datecode#4-character
	AS5510-DWLT AS5510-DWLM AS5510-DSOT AS5510-DSOM	1013JAD, 1019JAB, 1033JAH, 1106JAG, 1123JAJ, 1118JAI, 1123JAF, 1310JAD, 1308JAA, 1304JAK, 1326JAA, 1319JAB, 1317JAC, 1317JAA, 1334RAA, 1341RAA, 1350JAC, 1333RAB, 1341RAB, 1416JAB, 1407JAD, 1412JAB	A0J5, BCER, B32H, DW84, EUT3, EKYI, EUTZ, KP6T, KL8I, KECC, LLSI, K7YR, K30K, K30I, M06, NHU, NXE, MW68, NFN, NXF, OCJ3, NUR5, N4NN, JAAR, JAII

Description:

Connecting the pin Test to ground for affected parts could lead to startup problems of the device especially at cold temperature caused by the internal test structure. In this case, the device might not power-up at lower temperatures. This effect is only visible if the device is powered down for more than 400ms before a power-up. This is only related to the start-up sequence. Once the device is powered-up, the device is working failure-free unaffected form possible temperature changes.

Workaround:

This issue can be avoided for the affected parts by not connecting the test pin to ground. The recommended workaround is to use a pull-down resistor or a capacitor connected between the Test pin and ground pin as shown below in Figure 2.

Option: Keep the Test pin open or connect a 100k pull-down	Improved Option: Capacitor to GND
An open Test-pin or a pull-down resistor of 100KΩ to GND with minimum wiring to I2C signals will permanently solve the failure behavior.	For improved EMV and noise disturbance performance, a capacitor of 100 … 470 pF between Test pin and GND is recommended.

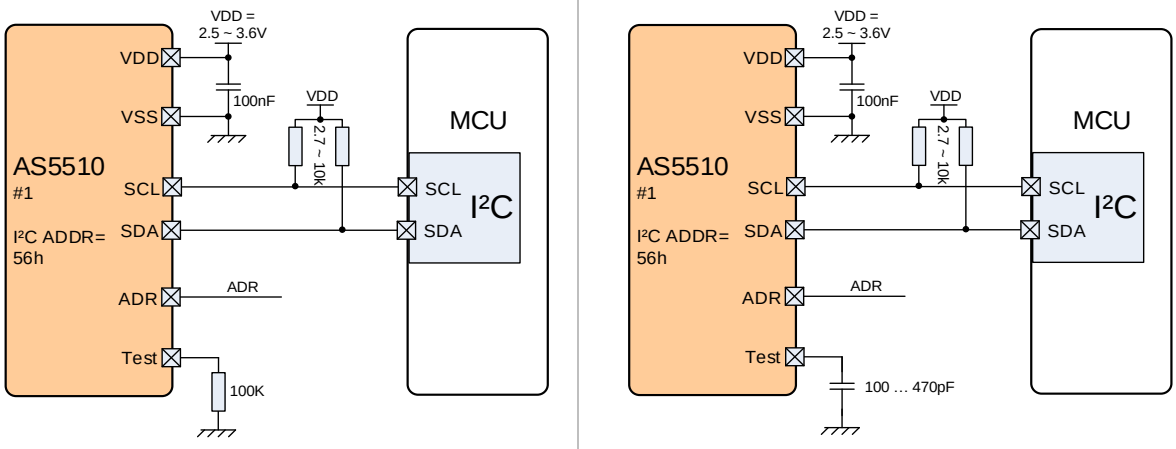


Figure 2: Recommended Workarounds

Copyrights & Disclaimer

Copyright ams AG, Tobelbader Strasse 30, 8141 Unterpremstaetten, Austria-Europe. Trademarks Registered. All rights reserved. The material herein may not be reproduced, adapted, merged, translated, stored, or used without the prior written consent of the copyright owner.

Devices sold by ams AG are covered by the warranty and patent indemnification provisions appearing in its General Terms of Trade. ams AG makes no warranty, express, statutory, implied, or by description regarding the information set forth herein. ams AG reserves the right to change specifications and prices at any time and without notice. Therefore, prior to designing this product into a system, it is necessary to check with ams AG for current information. This product is intended for use in commercial applications. Applications requiring extended temperature range, unusual environmental requirements, or high reliability applications, such as military, medical life-support or life-sustaining equipment are specifically not recommended without additional processing by ams AG for each application. This product is provided by ams AG “AS IS” and any express or implied warranties, including, but not limited to the implied warranties of merchantability and fitness for a particular purpose are disclaimed.

ams AG shall not be liable to recipient or any third party for any damages, including but not limited to personal injury, property damage, loss of profits, loss of use, interruption of business or indirect, special, incidental or consequential damages, of any kind, in connection with or arising out of the furnishing, performance or use of the technical data herein. No obligation or liability to recipient or any third party shall arise or flow out of ams AG rendering of technical or other services.

Contact Information:

Headquarters
ams AG
Tobelbaderstrasse 30
8141 Unterpremstaetten
Austria, Europe

Tel: +43 (0) 3136 500 0

Website: www.ams.com

Buy our products or get free samples online at:
www.ams.com/ICdirect

Technical Support is available at:
www.ams.com/Technical-Support

Provide feedback about this document at:
www.ams.com/Document-Feedback

For further information and requests, e-mail us at:
ams_sales@ams.com

For sales offices, distributors and representatives, please visit:
www.ams.com/contact