

**EV12AS350**  
**Evolution from revA to revB**  
October 2018

**Purpose and Disclaimer**

This document describes the specifications modifications to be taken into account when using EV12AS350B instead of EV12AS350A. These changes mainly concern the power supply voltages. Fit, form and function of the devices remain the same. Rev A and Rev B are fully pin to pin compatible. Once fully validated and qualified, the EV12AS350B aims at fully replacing the EV12AS350A and a Product Change Notification will be released accordingly.

For any question, please contact [Hotline-BDC@Teledyne-e2v.com](mailto:Hotline-BDC@Teledyne-e2v.com).

**Power supply voltage differences between EV12AS350A and EV12AS350B**

The power supply requirements are adjusted between EV12AS350A and EV12AS350B. These changes concern the Digital and Output power supply voltages as shown in the table below. See corresponding table in “Electrical Characteristics for supplies, Inputs and Outputs” section of the current datasheet.

Revision	Parameter	Test Level	Symbol	Min	Typ	Max	Unit	Note
	<b>RESOLUTION</b>				12		bit	
<b>POWER REQUIREMENTS</b>								
<b>A</b>	Power Supply voltage	1A	$V_{CCD}$	3.2	3.3	3.4	V	
	- Digital - Output ( $V_{CCO1}$ and $V_{CCO2}$ )		$V_{CCO}$	1.7	1.8	1.9	V	
<b>B</b>	Power Supply voltage	1A	$V_{CCD}$	3.1	3.2	3.3	V	
	- Digital - Output ( $V_{CCO1}$ and $V_{CCO2}$ )		$V_{CCO}$	1.9	2.0	2.1	V	

As a consequence, recommended conditions of use have been modified accordingly, as shown in the table below. See corresponding table in “Recommended Conditions of Use” section of the current datasheet.

Revision	Parameter	Symbol	Comments	Recommended Value	Unit
<b>A</b>	Positive digital supply voltage	$V_{CCD}$	Analog and Digital parts	3.3	V
	Positive Output supply voltage	$V_{CCO}$	Output buffers and Digital Part	1.8	V
<b>B</b>	Positive digital supply voltage	$V_{CCD}$	Analog and Digital parts	3.2	V
	Positive Output supply voltage	$V_{CCO}$	Output buffers and Digital Part	2.0	V

The absolute maximum rating value for VCCO has been revised to take into account the voltage increase from EV12A350A to EV12AS350B, as shown in the table below. See corresponding table in the “Absolute Maximum Ratings” section of the current datasheet.

Revision	Parameter	Symbol	Value		Unit
			Min	Max	
<b>A</b>	Positive output supply voltage 1.8V	V <sub>CCO</sub>	GND – 0.3	2.1	V
<b>B</b>	Positive output supply voltage 2.0V	V <sub>CCO</sub>	GND – 0.3	2.3	V

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