

This document is e2v property. Any copy and/or disclosure thereof are subject to e2v Grenoble's prior written consent

<b>DATE :</b> <i>May 2012</i>	<b>QUALIFICATION REPORT</b>	<b>PAGE :</b> 1/2
	In accordance with PGQ 15 : <b>GENERAL PRINCIPLES OF QUALIFICATION</b>	

<i>Product :</i>	<b>EV10AS150B Family – 10bit 2.6Gbps ADC</b>
------------------	--

<i>Qualification status :</i>	<input checked="" type="checkbox"/> <b>Accepted</b>	<input type="checkbox"/> <b>Pending</b>	<input type="checkbox"/> <b>Rejected</b>
<i>This product has met all e2v Grenoble qualification requirements.</i>			

<i>Qualified products :</i>	Package	Temperature range	Screening level
<b>EV10AS150BCTP</b>	<b>EBGA 317</b>	<b>“C” Grade: 0°C &lt; Tamb ; Tj &lt; 90°C</b>	<b>Standard</b>
<b>EV10AS150BCTPY <sup>(1)</sup></b>	<b>EBGA 317</b>	<b>“C” Grade: 0°C &lt; Tamb ; Tj &lt; 90°C</b>	<b>Standard</b>
<b>EV10AS150BVTP</b>	<b>EBGA 317</b>	<b>“V” Grade: -40°C &lt; Tamb ; Tj &lt; 110°C</b>	<b>Standard</b>
<b>EV10AS150BVTPY <sup>(1)</sup></b>	<b>EBGA 317</b>	<b>“V” Grade: -40°C &lt; Tamb ; Tj &lt; 110°C</b>	<b>Standard</b>

<sup>(1)</sup> “Y” letter at the end of part-number signifies RoHS product

<i>Directive 2002/95/EC compliance status :</i>	<input checked="" type="checkbox"/> <b>Pb free compliant</b>	<input checked="" type="checkbox"/> <b>RoHS compliant</b>	<input type="checkbox"/> <b>Fully Green compliant</b>
	<input type="checkbox"/> <b>Not compliant</b>		

<i>Die information :</i>		
Die size : <b>3.75 x 3.84 mm + 6.98 x 7.11 mm</b>	P. dissipated in Watt : <b>6 W (Typ. 1:4 Dmux)</b>	Mask : <b>VN05C + VM56A</b>
Wafer fab. : <b>INFINEON + JAZZ</b>	Process : <b>B7HF200 + SBC35-QTF</b>	Technology : <b>200GhzSiGe Bipolar + HS SiGe</b>

<i>Package information :</i>		
Outline : <b>35 x 25 x 1.6 mm</b>	Pitch : <b>1.27 mm</b>	Solder ball composition : <b>Sn62/Pb36/Ag2</b> <b>Sn96.5/Ag3/Cu0.5 <sup>(2)</sup></b>
Assy plant : <b>ASAT DG</b>	Moisture sensitivity level : <b>MSL 3</b>	Max. peak reflow : <b>220 °C</b> <b>260 °C <sup>(2)</sup></b>
<sup>(2)</sup> <b>RoHS product</b>		

This document is e2v property. Any copy and/or disclosure thereof are subject to e2v Grenoble's prior written consent

<b>DATE :</b> <i>May 2012</i>	<b>QUALIFICATION REPORT</b>	<b>PAGE :</b> <i>2/2</i>
	In accordance with PGQ 15 : <b>GENERAL PRINCIPLES OF QUALIFICATION</b>	

Product :

## EV10AS150B Family – 10bit 2.6Gsps ADC

Qualification batch information :

Mask : <b>VN05C + VM56A</b>	Diffusion lot : <b>RU047528.01</b>	Assy lot ID : <b>10037726</b>	Date Code : <b>1133</b>
--------------------------------	---------------------------------------	----------------------------------	----------------------------

Qualification tests results :

Die	TEST <i>Acceptable criteria</i>	METHOD <i>Condition</i>	Sample	Acc. Numb.	Fail
<b>VN05C</b>	Construction analysis <i>Infineon B7HF200 specifications</i>	<b>MIL-STD-883 TM2018</b> <i>Done by similarity with VN05A</i>	6 dice	0	<b>Pass</b>
<b>VM56A</b>	Construction analysis <i>Jazz SBC35-QTF specifications</i>	<b>MIL-STD-883 TM2018</b>	6 dice	0	<b>Pass</b>
<b>VN05C</b>	Operating Life Test <i>ATE program</i>	<b>MIL-STD-883 TM1005</b> <i>1000 Hrs / Tj 125°C</i>	45	0	<b>Pass</b>
<b>VM56A</b>	Operating Life Test <i>ATE program</i>	<b>MIL-STD-883 TM1005</b> <i>1000 Hrs / Tj 125°C</i>	45	0	<b>Pass</b>
<b>VN05C</b>	ESD HBM <i>ATE program</i>	<b>MIL-STD-883 TM3015</b> <i>3 devices ok 500V</i>	3	0	<b>Pass</b>
<b>VM56A</b>	ESD HBM <i>ATE program</i>	<b>JESD22-A114E</b> <i>3 devices ok 500V</i>	3	0	<b>Pass</b>
<b>VN05C</b>	LATCH-UP <i>ATE program</i>	<b>JEDEC 78B</b> <i>Class I &amp; Class II</i>	12	0	<b>Pass</b>
<b>VM56A</b>	LATCH-UP <i>ATE program</i>	<b>JEDEC 78B</b> <i>Class I &amp; Class II</i>	12	0	<b>Pass</b>

Package qualification: Cumulative results on EBGA packages family

<b>EBGA</b>	Moisture Sensitivity <i>ATE program</i> <i>Ultrasound scan &amp; transmission</i>	<b>J-STD-020D</b> <i>Level 3 / 30°C 60RH 192H 260°C</i>	> 350	0	<b>Pass</b>
<b>EBGA</b>	Temperature Cycle <sup>(A)</sup> <i>ATE program</i>	<b>JESD22-A104</b> <i>1000cy A/A -55°C to 125°C</i>	> 200	0	<b>Pass</b>
<b>EBGA</b>	Autoclave <sup>(A)</sup> <i>ATE program</i>	<b>JESD22-A102</b> <i>121°C/2atm/100%RH / 168Hrs</i>	> 150	0	<b>Pass</b>
<b>EBGA</b>	High temperature storage <i>ATE program</i>	<b>JESD22-A103-A</b> <i>150°C /1000Hrs</i>	> 50	0	<b>Pass</b>

(A) Devices issued from Moisture sensitivity test