



Product Change Notification

Product Change Notification Number: **HC093201**

Date: August 12, 2009

Title: ATR1841-P1QW - Datasheet Updated After Product Characterization

Product Identification:

ATR1841-P1QW

Reason for Change:

☒ Design

☐ Manufacturing Location

☐ Processing

☐ Quality/Reliability

☐ Logistics

☐ Material

Change Description:

Due to completion of the product characterization the following datasheet updates have been made.

Datasheet value 1.1 "Supply current" changed to typical 28 mA

No.	Parameters	Test Conditions	Pin	Symbol	Min.	Typ.	Max.	Unit	Type*
1.1	Supply current			I_{CC}		26.3 28	30	mA	A

Datasheet value 1.3 "Vref_int" replaced with " V_{RF+} , V_{RF-} "

1.3	V_{REF_INT} V_{RF+} , V_{RF-}		2, 3	Vzero	1.59	1.65	1.71	V	A
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Datasheet values 2.1 and 2.3 "Output offset" updated; Datasheet values 2.2 and 2.4-2.8 added:

2.1	Diff. output offset high gain	$V_{RF+} - V_{RF-}$	2, 3	V_{OFF_H}	-30 -60	0	30 60	mV	C
2.2	Diff. output offset middle / low gain	$V_{RF+} - V_{RF-}$	2, 3	V_{OFF_M}	-45	0	45	mV	C
2.3	Diff. offset drift (RF+)-(RF-)	high gain +6dB		dV_{OFF1}/dT	-25 -250		25 250	$\mu V / ^\circ$	C
2.4	Diff. offset drift (RF+)-(RF-)	high gain 0dB		dV_{OFF2}/dT	-185		185	$\mu V / ^\circ$	C
2.5	Diff. offset drift (RF+)-(RF-)	high gain -6dB		dV_{OFF3}/dT	-125		125	$\mu V / ^\circ$	C
2.6	Diff. offset drift (RF+)-(RF-)	mid/low gain +6dB		dV_{OFF4}/dT	-200		200	$\mu V / ^\circ$	C
2.7	Diff. offset drift (RF+)-(RF-)	mid/low gain 0dB		dV_{OFF5}/dT	-160		160	$\mu V / ^\circ$	C
2.8	Diff. offset drift (RF+)-(RF-)	mid/low gain -6dB		dV_{OFF6}/dT	-120		120	$\mu V / ^\circ$	C

Datasheet values 7.2 / 7.3 "Settling time" added:

7.1	RF+/RF-	High Gain +/-6dB	12,14	t_{set1}			30	ns	C
7.2	RF+/RF-	Middle Gain +/-6dB	12,14	t_{set1}			15	ns	C
7.3	RF+/RF-	Low Gain +/-6dB	12,14	t_{set1}			10	ns	C

Datasheet value 8.1 "Saturation Recovery Time" Test condition inserted:

8.1	RF+/RF-	related output swing relative to Vref:1.0V to 0.1V		t_{sat}			10	ns	C
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Identification Method to Distinguish Change:

Change affects all ATR1841 parts

Qualification Data:	☐ available	☒ will be available on Oct. 30, 2009	☐ not applicable
Samples:	☒ available	☐ will be available in WW ____	☐ not applicable

Quantifiable Impact on Quality & Reliability:

ATR1841 qualification is ongoing, product shipment prior to finished qualification only possible with waiver from end customer.

Proposed First Ship Date*: November 15, 2009

**The Proposed First Ship Date is the forecasted date that a customer may expect to receive changed product. This is determined by the estimated date of inventory depletion on the PCN issue date. This may be affected by fluctuations in supply and demand. Consequently, although customers should be prepared to receive changed product on this date, Atmel will continue to ship pre-changed product until a time in which inventory has been depleted. This may result in pre-changed product being shipped to customers after this forecasted date.*

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Atmel will deem this change accepted unless specific conditions of acceptance are provided in writing within 30 days from the date of this notice. All correspondence must be sent to the Atmel Contact e-mail address listed above.

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