PIC10F220/222

PIC10F220/222 Rev. A Silicon Errata

The PIC10F220/222 parts you have received conform functionally to the Device Data Sheet (DS41270**B**), except for the anomalies described below.

All issues listed here will be addressed in future revisions of the **PIC10F220/222 silicon**. Where noted, problems apply to listed revision only.

1. Module: Analog-to-Digital (A/D) Converter

PIC10F220/222 silicon Rev. A1. The A/D Converter does not meet the design target. The specifications listed below in Table 10-6 supersede Table 10-6 in DS41270B.

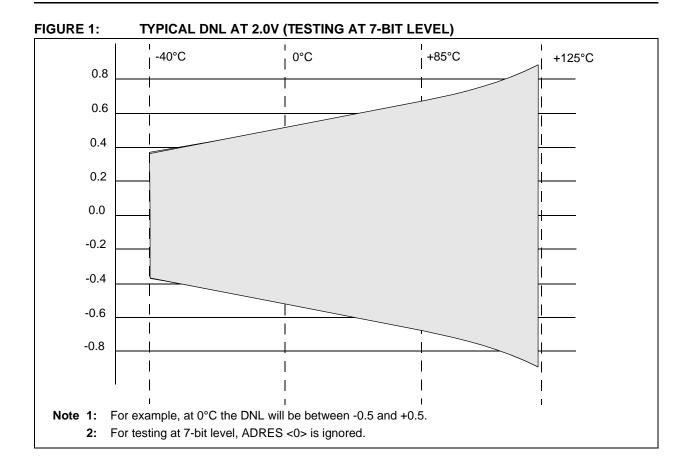
TABLE 10-6: A/D CONVERTER CHARACTERISTICS AT 8 BITS

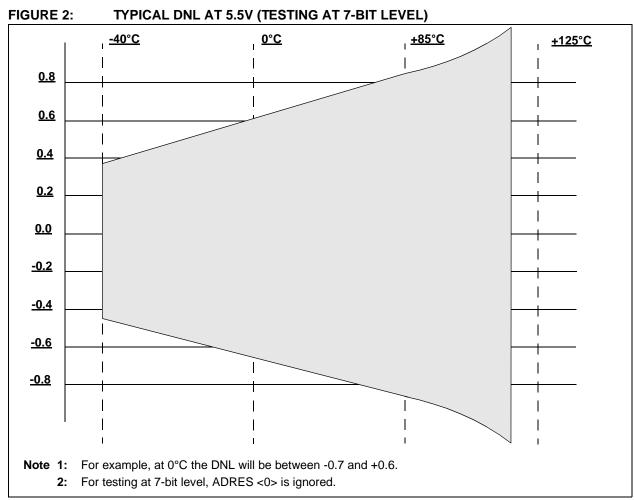
Param No.	Sym	Characteristic	Min	Тур†	Max	Units	Conditions
A03	EIL	Integral Error	_		±2	Lsb	VDD = 5.0V 25°C
A04	EDL	Differential Error	_	_	-1≤ EDL ≤2	Lsb	VDD = 5.0V 25°C
A06	EOFF	Offset Error	_	_	±2	LSb	VDD = 5.0V 25°C
A07	EGN	Gain Error	_	_	±2	LSb	VDD = 5.0V 25°C
A10		Monotonicity		not warranted ⁽¹⁾			VSS ≤ VAIN ≤ VDD

^{*} These parameters are characterized but not tested.

Note 1: This will be addressed in future silicon revisions.

[†] Data in the "Typ" column is at 5.0V, 25°C unless otherwise stated. These parameters are for design guidance only are not tested.





Work around:

None.

PIC10F220/222

Clarifications/Corrections to the Data Sheet:

In the Device Data Sheet (DS41270**B**), the following clarifications and corrections should be noted. None.

APPENDIX A: REVISION HISTORY

Rev A Document (04/2006)

First revision of this document. Covers ADC.

Note the following details of the code protection feature on Microchip devices:

- Microchip products meet the specification contained in their particular Microchip Data Sheet.
- Microchip believes that its family of products is one of the most secure families of its kind on the market today, when used in the intended manner and under normal conditions.
- There are dishonest and possibly illegal methods used to breach the code protection feature. All of these methods, to our knowledge, require using the Microchip products in a manner outside the operating specifications contained in Microchip's Data Sheets. Most likely, the person doing so is engaged in theft of intellectual property.
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- Neither Microchip nor any other semiconductor manufacturer can guarantee the security of their code. Code protection does not
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