



RC224ATFE and RC224ATLE Modem Device Extended Operating Temperature

INTRODUCTION

This data sheet/designer's guide addendum defines the extended operating temperature range and power requirements for the RC224ATFE and RC224ATLE modem devices. These parts are identical to the RC224ATF and RC224ATL, but with a wider operating temperature range. This information supersedes and augments information stated in the RC224ATF Data Sheet, Order No. MD51, Rev. 2, June 1992, and in the RC224ATF Designer's Guide, Order No. 821, Rev. 1, May 1992. This information also supersedes information stated in the RC224ATFX and RC224ATLX Data Sheet Addendum (Order No. MD51A, December 1992).

MODELS AND OPTIONS

Models of the RC224ATF are available with data/fax or data only functions for operation over commercial and industrial temperature ranges. Table 1 summarizes the models and operating temperature options.

POWER REQUIREMENTS

The power requirements for both commercial and industrial operating temperature ranges are shown in Table 2. This table supersedes power requirements stated in Tables 6 and 10 of the data sheet and in Tables 1-7 and 2-3 of the designer's guide.

Table 1. Models and Options

Model	Supported Functions	Operating Temperature
RC224ATF	Data/Fax	Commercial
RC224ATFE	Data/Fax	Industrial
RC224ATL	Data	Commercial
RC224ATLE	Data	Industrial
Operating temperature: Commercial: $T_A = 0^{\circ}\text{C}$ to 70°C ; Industrial: $T_A = -40^{\circ}\text{C}$ to 85°C .		

Table 2. Power Requirements

Mode	Current			Power		
	Typical Current @ $T_A = 25^{\circ}\text{C}$	Maximum Current @ $T_A = 0^{\circ}\text{C}$	Maximum Current @ $T_A = -40^{\circ}\text{C}$	Typical Power @ $T_A = 25^{\circ}\text{C}$	Maximum Power @ $T_A = 0^{\circ}\text{C}$	Maximum Power @ $T_A = -40^{\circ}\text{C}$
Normal	30 mA	43 mA	56 mA	150 mW	225 mW	295 mW
Sleep	6 mA	7.6 mA	10 mA	30 mW	40 mW	53 mW
Stop	0.4 mA	1 mA	1.3 mA	2 mW	5 mW	6.8 mW

Notes:

1. Maximum power @ -40°C specified only for extended temperature range parts.
2. Test conditions: VDD = 5.0 VDC for typical values; VDD = 5.25 VDC for maximum values.

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