

GENERAL DESCRIPTION

RhombusMF6200A mini-reader unit is designed for reading the Serial Number of the Mifare I compatible IC cards and is a major component in RFID (Radio Frequency Identification) reader system. It can be applied in office/home security, personal identification, access control, anti-forgery and production control systems etc.

FEATURES

- External balance driven antenna supported;
- Maximum effective distance up to 80mm;
- Less than 200ms decoding time;
- Low power dissipation with single power supply;
- ABA Track2 (8H) interface;
- Support Mifare I compatible IC cards;

CHARACTERISTICS

● Absolute Maximum Ratings

ITEM	SYMBOL	VALUE	UNIT
Power Supply	VCC	6	V
Operating Temp.	T _{OPR}	0~+70	°C
Storage Temp.	T _{STR}	-55~+125	°C

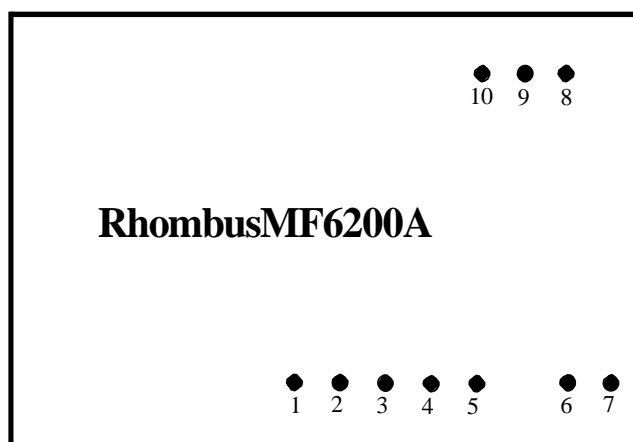
● Electrical and Mechanical Specification

Under T_A=25°C, VCC=+5V unless specified

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
Power Supply	VCC	4.5	5	5.5	V
Current Supply	I _C		60	100	mA
Operation Freq.	F _{REQ}		13.56		MHZ
Effective Distance*	DIS	0	50	80	mm
Decoding Time	T _{DEC}		120	200	ms

- Effective Distance depends on tags, antenna and operating environment.

INTERFACE DESCRIPTION



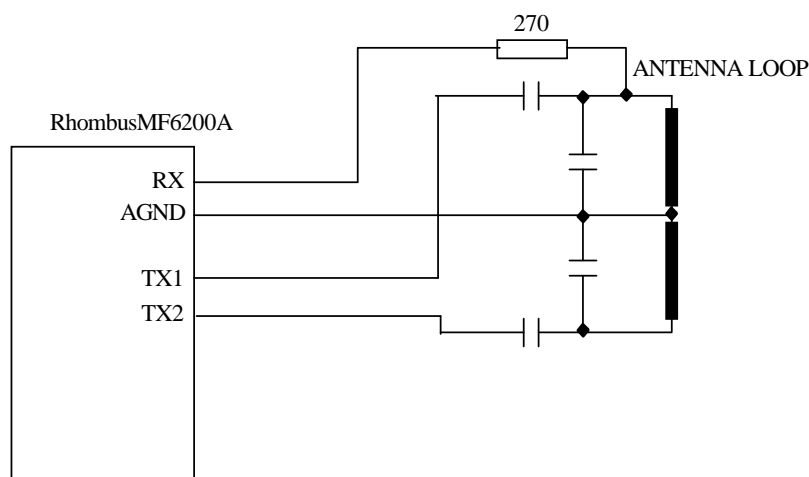
Bottom View

PIN No.	SYMBOL	DESCRIPTION
1	DATA	ABA Data output
2	CLK	ABA Clock output
3	CP	ABA Card Present output
4	TX1	Antenna Driver
5	TX2	Antenna Driver
6	AGND	Analog Ground. Internally connected to Digital Ground.
7	RX	Signal input
8	DGND	Digital Ground
9	DVCC	+5Vpower
10	NRST	Low level effective external Reset.*

- Normally keep unconnected

APPLICATION INFORMATION

The following is a typical external antenna circuit for RhombusMF6200A:



Note: Rhombus' products must work with linear regulated power supply, and other kinds of power supply are prohibited.