

Series 2000 Mini Radio Frequency Module

The Series 2000 Mini Radio Frequency Module is the interface between a 134.2 kHz HDX/FSK transponder and the Data Processing Unit.

It sends an energizing signal to the transponder, modulates the RF signal to send data to the transponder, receives the identification signal and processes it for digital decoding. The small size and low supply voltage make the Mini RF Module well suited for portable read/ write units.



Specifications:

	RI-RFM-003B
Operating Temperature	0 to +50°C
Storage Temperature	-25 to +85°C
Relative Humidity	<97% non-condensing, IEC 68-2-30 Test Db, 21 cycles
RF Transmit Frequency	134.2 kHz
Power Supply	Logic Part: 4.75 to 5.25 VDC, regulated; max. 80mA TX Power Stage: 4.50 to 6.00 VDC, regulated; max. 1.2A (depending on the repetition rate and antenna used)
Antenna Specification	Inductivity: 115 to 117µH Q: min. 200
Antenna Recommended	Ferrite Stick Antenna RI-ANT-P02A Inductivity: 115 to 117µH; Q: min. 200 or Air Coil Antenna Inductivity: 116.5 to 119µH; Q: min. 100
Antenna Resonance Voltage	max. 240 V peak
Transponder Types	134.2 kHz HDX / FSK
Dimensions	(60.2 mm x 55.1 mm x 11.5 mm) ± 1.0 mm
Weight	approx. 40 g
Drop Test	1 m on concrete, 3 axes, mounted in moulded aluminum case
Vibration Test	2 g, 5-500 Hz, displacement 15 mm, 1 oct / min, 3 axes, 3 hrs / axis
Reference Documentation	11-06-29-030 Reference Guide S2000 Mini RF Module RI-RFM-003B 11-08-22-003 Product Bulletin S2000 Antennas RI-ANT-P02A
Approvals	CE; FCC

For more information, contact the sales office or distributor nearest you. This contact information can be found on our web site at: <http://www.ti-rfid.com>

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