

## **Data Sheet**

## HF Reader System Series 6000 S6110 Reader Module



## Specifications:

Part number	RI-R00-321A
Operating Frequency	13.56 MHz
RF power output	100mW to 1.1W (adjustable)
Power change over operating temperature range	2dB max.
Antenna bandwidth	1MHz @ -3dB
Antenna Impedance	50 Ohm @ 13.56 MHz
Return loss	20dB or better (VSWR<1:1.1222)
Maximum antenna cable length	15 meters
Transmitter modulation	Pulse width coded,
	AM 100%; on-off ratio > 40dB
Receive frequencies and bit modulation	Manchester coded $A = f_c \pm 423.75 \text{ kHz}, B = f_c \pm 484.29 \text{ kHz}$ Low bit: transition A to B High bit: transition B to A
Receiver sensitivity	Better –60dBm @ 20dB S/N; bit error rate 10 <sup>-4</sup>
Operating Voltage	12V ± 5%
Typical Current Consumption (12V, 25°C, RF power output 800mW)	Active: 850mA Stand-by (transmitter off): 650mA
Flash EEPROM	32k x 16
S-RAM	4.5k x 16
Communication Interface	RS232; 9-pin, Sub D (male)
Communication Protocol	Tag-it Host Protocol
Operating Temperature	-20°C to +55°C (including self-generated heat)
Storage Temperature	-40°C to +80°C
Vibration	Suited for static applications
Dimensions	160mm x 73mm x 43mm
Weight	220g

For more information, contact the sales office or distributor nearest you. This contact information can be found on our web site at:

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