

Product Data Sheet

Coil-on-Chip RFID Systems *Specifications*



Specifications of RFID chip (ME-Y1001)

Items	Specifications	
Carrier Frequency f_c	13.56 MHz	
Operating Distance	Approx. 0.5mm to 2mm (variable depending on the performance of the Reader/Writer or system environment)	
Memory Capacity	Capacity: 1 Kbits (128 Bytes) (User Field: 108 Bytes, System Field: 16 Bytes) 8-bit down counter x 4	
System Field	Serial No.: 32 bits x 2 Key: 32 bits Mode Byte: 1 Byte Access Byte: 1 Byte Extend Byte: 2 Bytes	
Data Rate	26.48 kbps	
Communication Protocol	Proprietary	
IC Process	CMOS	
Error Check	16 bits CRC	
Suitable Reader/Writer	By Hitachi Maxell (ME-L1001, ME-L4001)	
	Reader/Writer → RFID chip	RFID chip → Reader/Writer
Modulation	Coding Method	Pulse Position Manchester
	Modulation Method	ASK 100% Load Modulation
	Sub-Carrier	non 423.75 kHz

Product Data Sheet

Specifications of R/W LSI

Items		Specifications	
Carrier Frequency f_c		13.56 MHz	
Operating Distance		Approx. 0.5mm to 2mm (variable depending on the performance of the Reader/Writer or system environment)	
Data Rate		26.48 kbps	
Communication Protocol		Proprietary	
Error Check		16 bits CRC	
Interface		USB or UART	
Suitable RFID chip		Hitachi Maxell: ME-Y1001	
		Reader/Writer→RFID chip	RFID chip→Reader/Writer
Modulation	Coding Method	Pulse Position	Manchester
	Modulation Method	ASK 100%	Load Modulation
	Sub-Carrier	non	423.75 kHz

Personal Reader/Writer Terminal (Picochet)

Items	Specifications
Host interface	USB
Supporting OS	Windows 98 (2nd Edition or later) Mac OS 8.6, OS 9
Supporting Media	Original token 35mm-diameter, 0.76mm-thick IC card
Dimensions	Approx. 6 (D) x 6 (W) x 10 (H) cm
Weight	Approx. 200g
Power consumption	Approx. 1.5W (during reads or writes only)
Provided software	USB device driver, Read/Write application software