

# NextGen Transponder Specification Sheet

**Note:** This assembly will only work properly in combination with the mating Transceiver (PA2116G01, G02)

## Prints

Schematic	PB0988P01
PCB	PB0989P01
ASSY	PA2117G01

## PC Board & Assembly

Material	FR4 Glass Epoxy Board
Layers	2
Board Thickness	.062"
Manufacture of the board	WayTec, Lynchburg, VA, UL E75730
Assembled by	MackTech, Westford,MA, (978) 392-5500
Conformal Coat	Humiseal #1B73AP or Equivalent (UL File # E105698)

## General Information

Input Voltage Range	Inductive coupled from Transceiver - 5 volts
Max Operating Current Consumption	2 Milliamps
Operating Frequency	125kHz Nominal (100K-500KHz)
Wire Spec	Stranded copper, thermoplastic insulation, .031 nom wall, 105c, 600 volts, ul1015

## On Board Power Supply

Input Voltage	Inductively Coupled from Transceiver, 5 volts Nominal
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**Protection**

Resistive

## **RFID Information**

**Chip**

MC14536B ON Semiconductor Programmable  
Timer

**Frequency**

125KHz

**Voltage no Output Coil**

5 VAC RMS

**Current from Output Coil**

2 Milliamps DC

**Protection**

Current Limiting Resistor

**Output Frequency**

Out of range

None

Both Switches Inactive

150 Hz

On/Off Active Only

300 Hz

Alarm Active Only

600 Hz

On/Off & Alarm Active

1200 Hz

Last Updated 1/26/2007 SM