

# 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

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

## General Information

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

## On Board Power Supply

<b>Input Voltage</b>	Inductively Coupled from Transceiver, 5 volts Nominal
----------------------	---

**Protection** Resistive

## RFID Information

<b>Chip</b>	MC14536B ON Semiconductor Programmable Timer
<b>Frequency</b>	125KHz
<b>Voltage no Output Coil</b>	5 VAC RMS
<b>Current from Output Coil</b>	2 Milliamps DC
<b>Protection</b>	Current Limiting Resistor
<b>Output Frequency</b>	
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