

# IC1001 INFRARED RECEIVER/DECODER INTEGRATED CIRCUIT

## DESCRIPTION

The Innotech Systems IC1001 Infrared Receiver/Decoder Integrated Circuit provides a convenient means of enabling microprocessor or microcontroller-based systems to receive infrared remote control signals. The IC1001 receives and decodes the infrared signal generated by the matching handheld Innotech series of "Customizable Universal Remote Controls."

The IC1001 inputs serial IR data from an infrared detector and provides a 6-bit parallel word indicating row and column location of the remote control key pressed. An Infrared Signal Detected strobe remains active as long as the key on the remote control is held down, and will remain active 75 ms after key release. The parallel bus data will remain latched until the subsequent key press.

## CODE DESCRIPTION

The IC1001 and matching ISI103B Remote Control support keypad layouts of up to 61 keys. Unused keys on the matching remote control are "masked out" with an overlay template ensuring a unique look to each remote control design. The available remote control

key locations and the matching hexadecimal codes produced by the IC1001 are shown below. Note: please contact Innotech Systems for proper key locations for ISI203 and ISI303B remote controls.

●			
			03
04	05	06	07
09	09	0A	0B
0C	0D	0E	0F
10	11	12	13
14	15	16	17
18	19	1A	1B
1C	1D	1E	1F
20	21	22	23
24	25	26	27
28	29	2A	2B
2C	2D	2E	2F
30	31	32	33
34	35	36	37
38	39	3A	3B
3C	3D	3E	3F

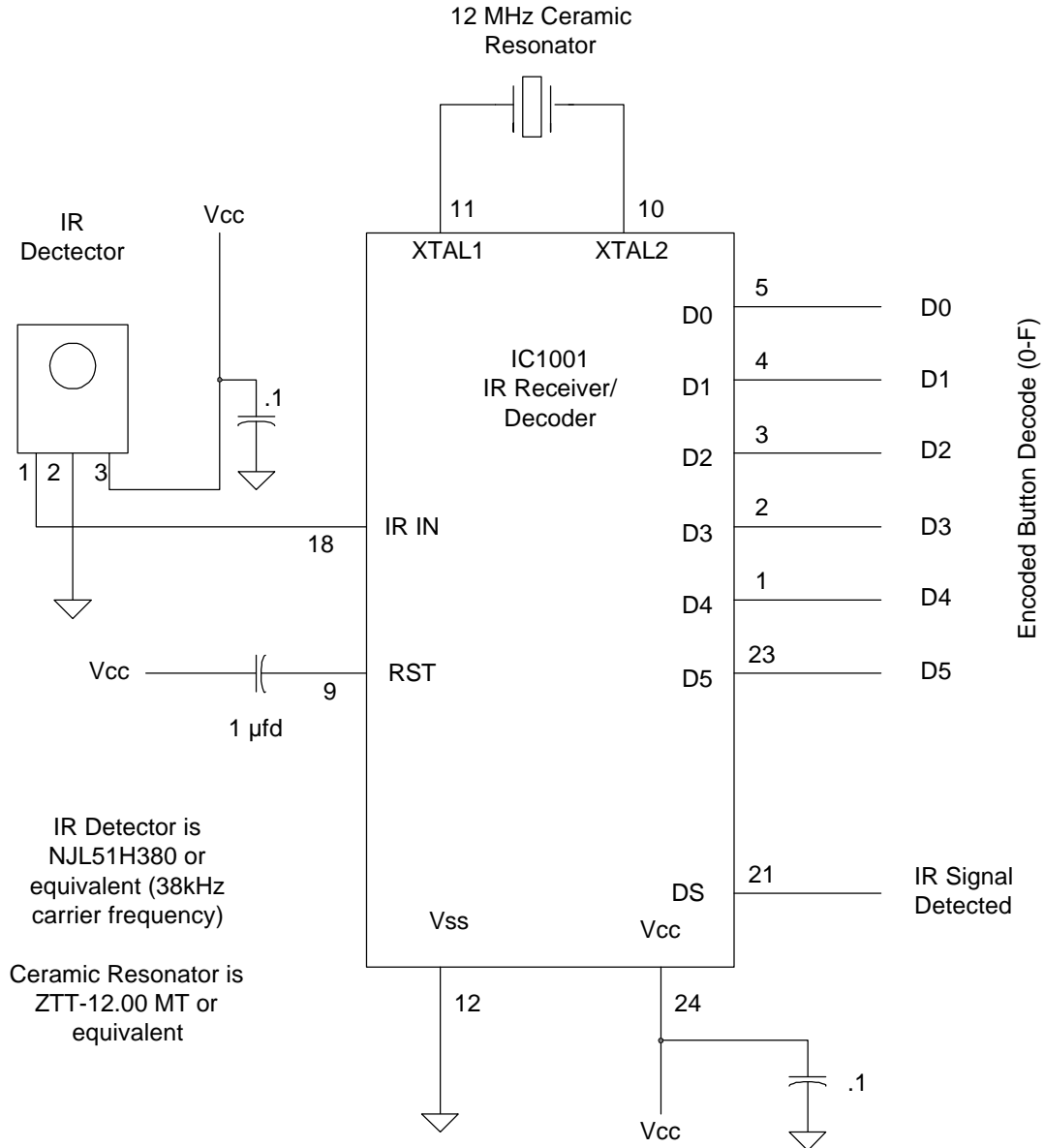
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Top Of Remote

Illustration shows key locations of matching ISI103 Customizable

ISI101B Customizable Remote Control



## Typical Application: IC1001 Infrared Receiver Decoder:



Package: 24 Pin DIP