



## Infrared Remote Control Transmitter

PT2560

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### Description

PT2560 is an infrared remote control transmitter utilizing CMOS technology housed in a 20-pin DIP or SO package. A 4 x 8 key matrix and extension bit inputs allow the transmission of up to 256 instructions. The transmission code consists of 16 bits code (8 bits custom code and 8 bits data code) and a leader code. PT2560 is functionally compatible with M50560. However, there is a slight difference in their application circuits. If you are to replace M50560 with PT2560, you do not need to connect an external capacitor to Pin No.3 (SEL Pin).

Pin assignments and application circuit of PT2560 are optimized for easy PCB layout and cost saving advantage for remote control applications.

### Features

- ☐ CMOS Technology
- ☐ Low Power Consumption: 2.0 ~ 4.0 V
- ☐ Least External Components
- ☐ LED Power Dissipation is less during the transmission of instructions

### Applications

- ☐ Audio Equipment
- ☐ Television
- ☐ Video Cassette Recorder
- ☐ Air Conditioner

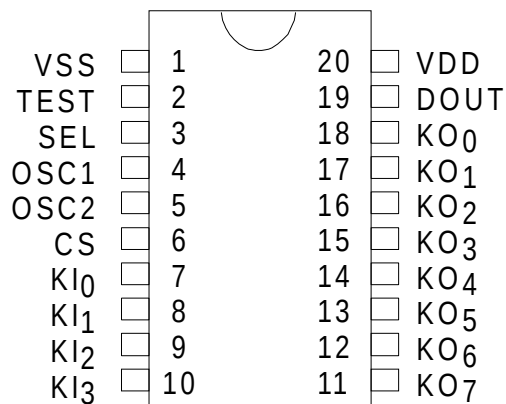


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**Pin Configuration**

PT2560

**Order Information**

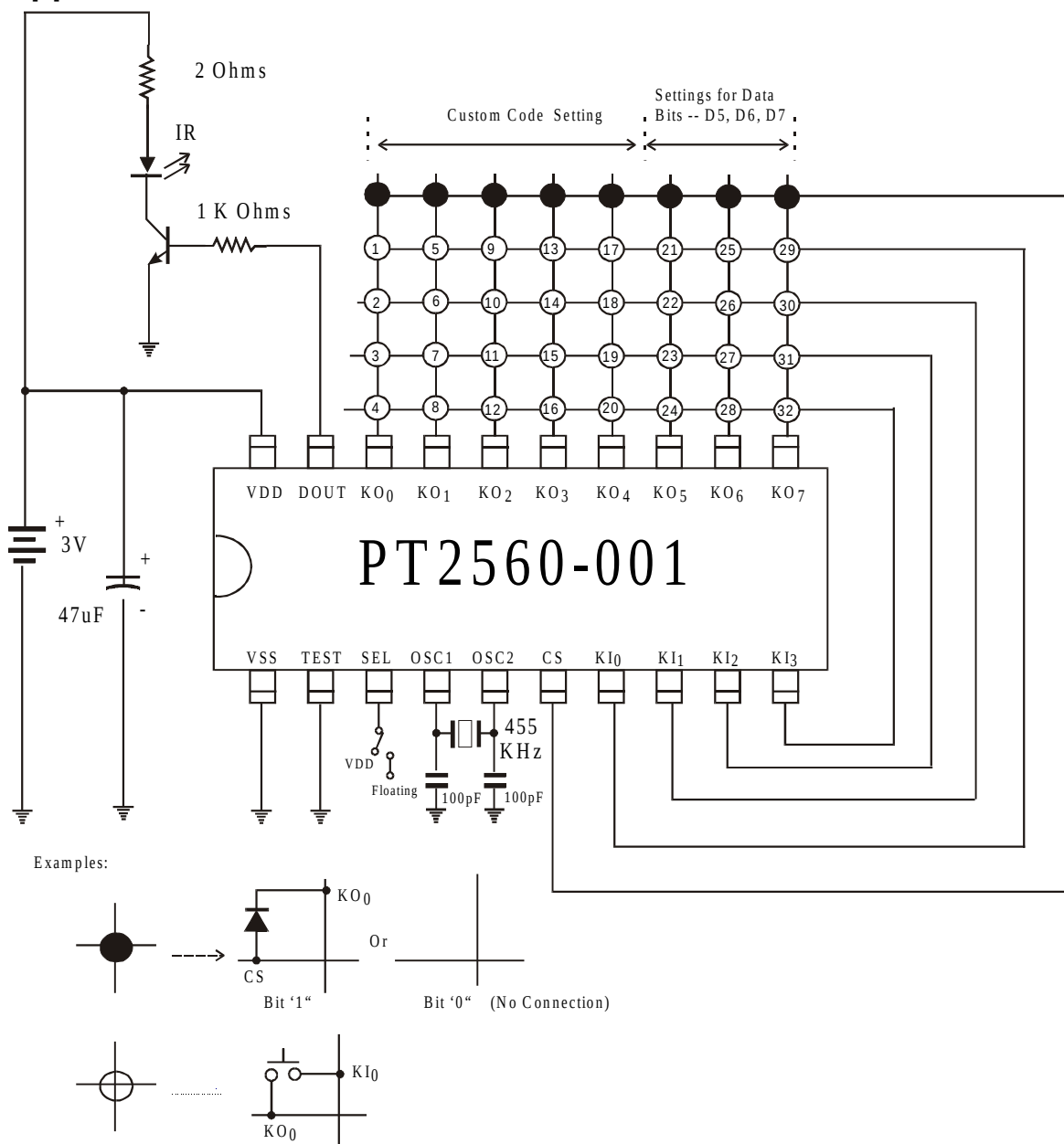
| Valid Part Number | Package                        |
|-------------------|--------------------------------|
| PT2560-001        | 20 Pins, DIP Package (300 mil) |
| PT2560S-001       | 20 Pins, SO Package (300 mil)  |
| PT2560-002        | 20 Pins, DIP Package (300 mil) |
| PT2560S-002       | 20 Pins, SO Package (300mil)   |
| PT2560-003        | 20 Pins, DIP Package (300 mil) |
| PT2560S-003       | 20 Pins, SO Package (300 mil)  |



## Infrared Remote Control Transmitter

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## Application Circuit 1



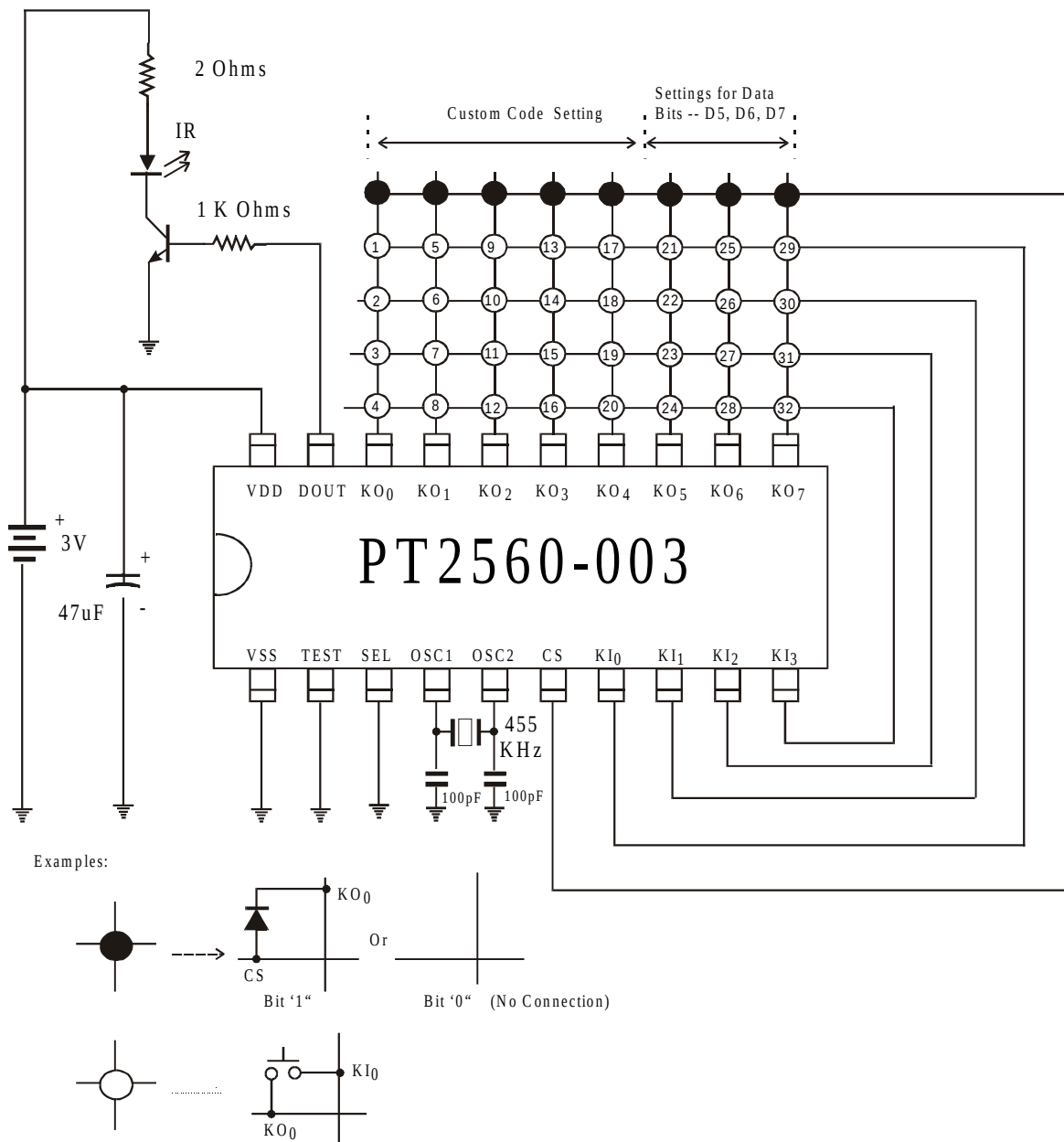
Note: Please take note that if you are replacing M50560 with PT2560, you do not need to connect an external capacitor to PT2560's Pin No. 3 (SEL PIN). PT2560 SEL Pin must either be "floating" or connected to VDD.



## Infrared Remote Control Transmitter

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### Application Circuit 2



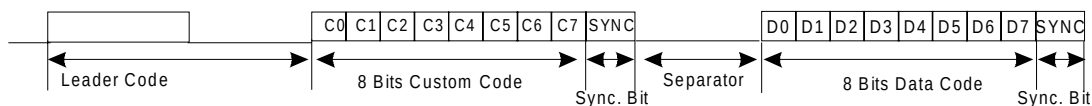
Note: Please take note that if you are replacing M50560 with PT2560, you do not need to connect an external capacitor to PT2560's Pin No. 3 (SEL PIN). PT2560 SEL Pin must be connected to the Ground.



## Infrared Remote Control Transmitter

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## Application Circuit 1 &amp; 2 Key Table



PT2560-001/ PT2560-003 Custom Code Table for Application Circuit 1/2

| Input | KO Lines        |                 |                 |                 |                 | Custom Codes |    |    |    |    |     |    |    |
|-------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|----|----|----|----|-----|----|----|
| CS    | KO <sub>0</sub> | KO <sub>1</sub> | KO <sub>2</sub> | KO <sub>3</sub> | KO <sub>4</sub> | C0           | C1 | C2 | C3 | C4 | C5  | C6 | C7 |
|       |                 |                 |                 |                 |                 | 0            | 0  | 0  | 0  | 0  | 0/1 | 0  | 0  |
| *     | *               |                 |                 |                 |                 | 1            | 0  | 0  | 0  | 0  | 0/1 | 0  | 0  |
| *     |                 | *               |                 |                 |                 | 0            | 1  | 0  | 0  | 0  | 0/1 | 0  | 0  |
| *     | *               | *               |                 |                 |                 | 1            | 1  | 0  | 0  | 0  | 0/1 | 0  | 0  |
| *     |                 |                 | *               |                 |                 | 0            | 0  | 1  | 0  | 0  | 0/1 | 0  | 0  |
| *     | *               |                 | *               |                 |                 | 1            | 0  | 1  | 0  | 0  | 0/1 | 0  | 0  |
| *     |                 | *               | *               |                 |                 | 0            | 1  | 1  | 0  | 0  | 0/1 | 0  | 0  |
| *     | *               | *               | *               |                 |                 | 1            | 1  | 1  | 0  | 0  | 0/1 | 0  | 0  |
| *     |                 |                 |                 | *               |                 | 0            | 0  | 0  | 1  | 0  | 0/1 | 0  | 0  |
| *     | *               |                 |                 | *               |                 | 1            | 0  | 0  | 1  | 0  | 0/1 | 0  | 0  |
| *     |                 | *               |                 | *               |                 | 0            | 1  | 0  | 1  | 0  | 0/1 | 0  | 0  |
| *     | *               | *               |                 | *               |                 | 1            | 1  | 0  | 1  | 0  | 0/1 | 0  | 0  |
| *     |                 |                 | *               | *               |                 | 0            | 0  | 1  | 1  | 0  | 0/1 | 0  | 0  |
| *     | *               |                 | *               | *               |                 | 1            | 0  | 1  | 1  | 0  | 0/1 | 0  | 0  |
| *     |                 | *               | *               | *               |                 | 0            | 1  | 1  | 1  | 0  | 0/1 | 0  | 0  |
| *     | *               | *               | *               | *               |                 | 1            | 1  | 1  | 1  | 0  | 0/1 | 0  | 0  |
| *     |                 |                 |                 |                 | *               | 0            | 0  | 0  | 0  | 1  | 0/1 | 0  | 0  |
| *     | *               |                 |                 |                 | *               | 1            | 0  | 0  | 0  | 1  | 0/1 | 0  | 0  |
| *     |                 | *               |                 |                 | *               | 0            | 1  | 0  | 0  | 1  | 0/1 | 0  | 0  |
| *     | *               | *               |                 |                 | *               | 1            | 1  | 0  | 0  | 1  | 0/1 | 0  | 0  |
| *     |                 |                 | *               |                 | *               | 0            | 0  | 1  | 0  | 1  | 0/1 | 0  | 0  |
| *     | *               |                 | *               |                 | *               | 1            | 0  | 1  | 0  | 1  | 0/1 | 0  | 0  |
| *     |                 | *               | *               |                 | *               | 0            | 1  | 1  | 0  | 1  | 0/1 | 0  | 0  |
| *     | *               | *               | *               |                 | *               | 1            | 1  | 1  | 0  | 1  | 0/1 | 0  | 0  |
| *     |                 |                 |                 | *               | *               | 0            | 0  | 0  | 1  | 1  | 0/1 | 0  | 0  |
| *     | *               |                 |                 | *               | *               | 1            | 0  | 0  | 1  | 1  | 0/1 | 0  | 0  |
| *     |                 | *               |                 | *               | *               | 0            | 1  | 0  | 1  | 1  | 0/1 | 0  | 0  |
| *     | *               | *               |                 | *               | *               | 1            | 1  | 0  | 1  | 1  | 0/1 | 0  | 0  |
| *     |                 |                 | *               | *               | *               | 0            | 0  | 1  | 1  | 1  | 0/1 | 0  | 0  |
| *     | *               |                 | *               | *               | *               | 1            | 0  | 1  | 1  | 1  | 0/1 | 0  | 0  |
| *     |                 | *               | *               | *               | *               | 0            | 1  | 1  | 1  | 1  | 0/1 | 0  | 0  |
| *     | *               | *               | *               | *               | *               | 1            | 1  | 1  | 1  | 1  | 0/1 | 0  | 0  |

Note: \* = CS connected to the respective KO Line

For PT2560-001, Custom Code Bit 5 (C5) = "0".

For PT2560-003 Custom Code Bit 5 (C5) = "1".



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## PT2560-001/PT2560-003 Data Code Table for Application Circuit 1/2

| No. | KI Lines        |                 |                 |                 | KO Lines        |                 |                 |                 |                 |                 |                 |                 | Data Code |    |    |    |    |
|-----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|----|----|----|----|
|     | KI <sub>0</sub> | KI <sub>1</sub> | KI <sub>2</sub> | KI <sub>3</sub> | KO <sub>0</sub> | KO <sub>1</sub> | KO <sub>2</sub> | KO <sub>3</sub> | KO <sub>4</sub> | KO <sub>5</sub> | KO <sub>6</sub> | KO <sub>7</sub> | D0        | D1 | D2 | D3 | D4 |
| 1   | *               |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | 0         | 0  | 0  | 0  | 0  |
| 2   |                 | *               |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | 1         | 0  | 0  | 0  | 0  |
| 3   |                 |                 | *               |                 | *               |                 |                 |                 |                 |                 |                 |                 | 0         | 1  | 0  | 0  | 0  |
| 4   |                 |                 |                 | *               | *               |                 |                 |                 |                 |                 |                 |                 | 1         | 1  | 0  | 0  | 0  |
| 5   | *               |                 |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 | 0         | 0  | 1  | 0  | 0  |
| 6   |                 | *               |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 | 1         | 0  | 1  | 0  | 0  |
| 7   |                 |                 | *               |                 |                 | *               |                 |                 |                 |                 |                 |                 | 0         | 1  | 1  | 0  | 0  |
| 8   |                 |                 |                 | *               |                 | *               |                 |                 |                 |                 |                 |                 | 1         | 1  | 1  | 0  | 0  |
| 9   | *               |                 |                 |                 |                 |                 | *               |                 |                 |                 |                 |                 | 0         | 0  | 0  | 1  | 0  |
| 10  |                 | *               |                 |                 |                 |                 | *               |                 |                 |                 |                 |                 | 1         | 0  | 0  | 1  | 0  |
| 11  |                 |                 | *               |                 |                 |                 | *               |                 |                 |                 |                 |                 | 0         | 1  | 0  | 1  | 0  |
| 12  |                 |                 |                 | *               |                 |                 | *               |                 |                 |                 |                 |                 | 1         | 1  | 0  | 1  | 0  |
| 13  | *               |                 |                 |                 |                 |                 |                 | *               |                 |                 |                 |                 | 0         | 0  | 1  | 1  | 0  |
| 14  |                 | *               |                 |                 |                 |                 |                 | *               |                 |                 |                 |                 | 1         | 0  | 1  | 1  | 0  |
| 15  |                 |                 | *               |                 |                 |                 |                 | *               |                 |                 |                 |                 | 0         | 1  | 1  | 1  | 0  |
| 16  |                 |                 |                 | *               |                 |                 |                 | *               |                 |                 |                 |                 | 1         | 1  | 1  | 1  | 0  |
| 17  | *               |                 |                 |                 |                 |                 |                 |                 | *               |                 |                 |                 | 0         | 0  | 0  | 0  | 1  |
| 18  |                 | *               |                 |                 |                 |                 |                 |                 | *               |                 |                 |                 | 1         | 0  | 0  | 0  | 1  |
| 19  |                 |                 | *               |                 |                 |                 |                 |                 | *               |                 |                 |                 | 0         | 1  | 0  | 0  | 1  |
| 20  |                 |                 |                 | *               |                 |                 |                 |                 | *               |                 |                 |                 | 1         | 1  | 0  | 0  | 1  |
| 21  | *               |                 |                 |                 |                 |                 |                 |                 |                 | *               |                 |                 | 0         | 0  | 1  | 0  | 1  |
| 22  |                 | *               |                 |                 |                 |                 |                 |                 |                 | *               |                 |                 | 1         | 0  | 1  | 0  | 1  |
| 23  |                 |                 | *               |                 |                 |                 |                 |                 |                 | *               |                 |                 | 0         | 1  | 1  | 0  | 1  |
| 24  |                 |                 |                 | *               |                 |                 |                 |                 |                 | *               |                 |                 | 1         | 1  | 1  | 0  | 1  |
| 25  | *               |                 |                 |                 |                 |                 |                 |                 |                 |                 | *               |                 | 0         | 0  | 0  | 1  | 1  |
| 26  |                 | *               |                 |                 |                 |                 |                 |                 |                 |                 | *               |                 | 1         | 0  | 0  | 1  | 1  |
| 27  |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | *               |                 | 0         | 1  | 0  | 1  | 1  |
| 28  |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 | *               |                 | 1         | 1  | 0  | 1  | 1  |
| 29  | *               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | *               | 0         | 0  | 1  | 1  | 1  |
| 30  |                 | *               |                 |                 |                 |                 |                 |                 |                 |                 |                 | *               | 1         | 0  | 1  | 1  | 1  |
| 31  |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 |                 | *               | 0         | 1  | 1  | 1  | 1  |
| 32  |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | *               | 1         | 1  | 1  | 1  | 1  |

| Input<br>CS | KO Lines        |                 |                 | Data Code |    |    |
|-------------|-----------------|-----------------|-----------------|-----------|----|----|
|             | KO <sub>5</sub> | KO <sub>6</sub> | KO <sub>7</sub> | D5        | D6 | D7 |
|             |                 |                 |                 | 0         | 0  | 0  |
| *           | *               |                 |                 | 1         | 0  | 0  |
| *           |                 | *               |                 | 0         | 1  | 0  |
| *           | *               | *               |                 | 1         | 1  | 0  |
| *           |                 |                 | *               | 0         | 0  | 1  |
| *           | *               |                 | *               | 1         | 0  | 1  |
| *           |                 | *               | *               | 0         | 1  | 1  |
| *           | *               | *               | *               | 1         | 1  | 1  |

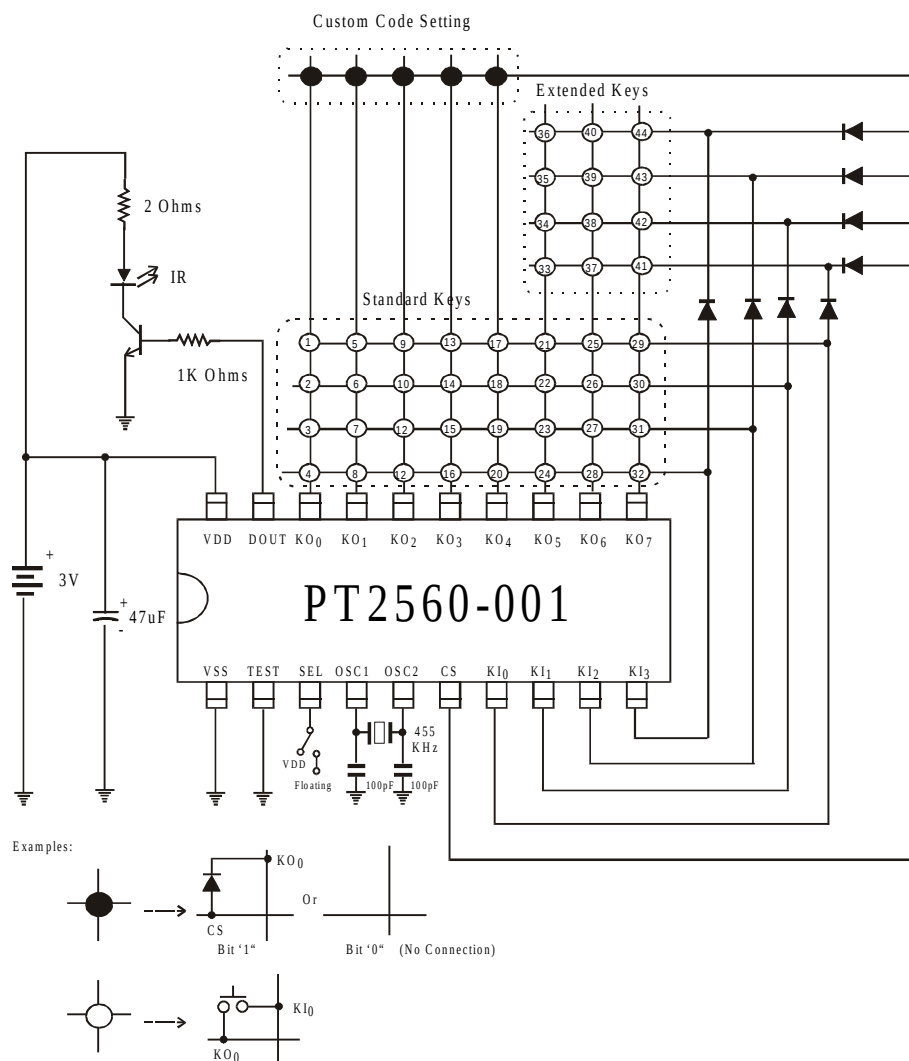


## Infrared Remote Control Transmitter

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### Application Circuit 3

(Extended Codes)



Note: Please take note that if you are replacing M50560 with PT2560, you do not need to connect an external capacitor to PT2560's Pin No. 3 (SEL PIN). PT2560 SEL Pin must either be "floating" or connected to VDD.



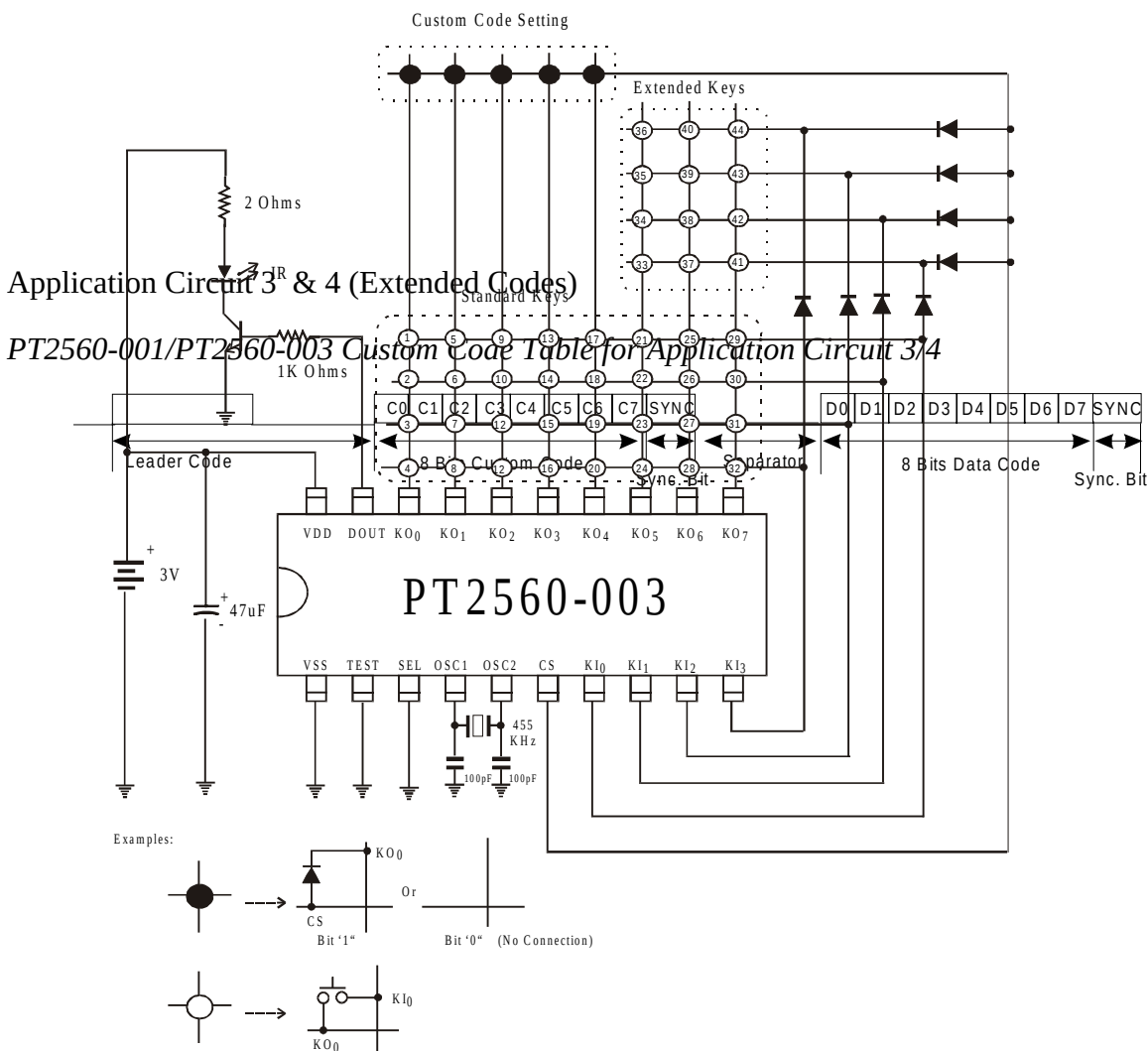
## Infrared Remote Control Transmitter

## PT2560

## Application Circuit 4

(Extended Codes)

Note: Please take note that if you are replacing M50560 with PT2560, you do not need to connect an external capacitor to PT2560's Pin No. 3 (SEL PIN). PT2560 SEL Pin must connected to the Ground.







## Infrared Remote Control Transmitter

## PT2560

| Input<br>CS | KO Lines        |                 |                 |                 |                 | Custom Codes |    |    |    |    |     |    |    |
|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|----|----|----|----|-----|----|----|
|             | KO <sub>0</sub> | KO <sub>1</sub> | KO <sub>2</sub> | KO <sub>3</sub> | KO <sub>4</sub> | C0           | C1 | C2 | C3 | C4 | C5  | C6 | C7 |
|             |                 |                 |                 |                 |                 | 0            | 0  | 0  | 0  | 0  | 0/1 | 0  | 0  |
| *           | *               |                 |                 |                 |                 | 1            | 0  | 0  | 0  | 0  | 0/1 | 0  | 0  |
| *           |                 | *               |                 |                 |                 | 0            | 1  | 0  | 0  | 0  | 0/1 | 0  | 0  |
| *           | *               | *               |                 |                 |                 | 1            | 1  | 0  | 0  | 0  | 0/1 | 0  | 0  |
| *           |                 |                 | *               |                 |                 | 0            | 0  | 1  | 0  | 0  | 0/1 | 0  | 0  |
| *           | *               |                 | *               |                 |                 | 1            | 0  | 1  | 0  | 0  | 0/1 | 0  | 0  |
| *           |                 | *               | *               |                 |                 | 0            | 1  | 1  | 0  | 0  | 0/1 | 0  | 0  |
| *           | *               | *               | *               |                 |                 | 1            | 1  | 1  | 0  | 0  | 0/1 | 0  | 0  |
| *           |                 |                 |                 | *               |                 | 0            | 0  | 0  | 1  | 0  | 0/1 | 0  | 0  |
| *           | *               |                 |                 | *               |                 | 1            | 0  | 0  | 1  | 0  | 0/1 | 0  | 0  |
| *           |                 | *               |                 | *               |                 | 0            | 1  | 0  | 1  | 0  | 0/1 | 0  | 0  |
| *           | *               | *               |                 | *               |                 | 1            | 1  | 0  | 1  | 0  | 0/1 | 0  | 0  |
| *           |                 |                 | *               | *               |                 | 0            | 0  | 1  | 1  | 0  | 0/1 | 0  | 0  |
| *           | *               |                 | *               | *               |                 | 1            | 0  | 1  | 1  | 0  | 0/1 | 0  | 0  |
| *           |                 | *               | *               | *               |                 | 0            | 1  | 1  | 1  | 0  | 0/1 | 0  | 0  |
| *           | *               | *               | *               | *               |                 | 1            | 1  | 1  | 1  | 0  | 0/1 | 0  | 0  |
| *           |                 |                 |                 |                 | *               | 0            | 0  | 0  | 0  | 1  | 0/1 | 0  | 0  |
| *           | *               |                 |                 |                 | *               | 1            | 0  | 0  | 0  | 1  | 0/1 | 0  | 0  |
| *           |                 | *               |                 |                 | *               | 0            | 1  | 0  | 0  | 1  | 0/1 | 0  | 0  |
| *           | *               | *               |                 |                 | *               | 1            | 1  | 0  | 0  | 1  | 0/1 | 0  | 0  |
| *           |                 |                 | *               |                 | *               | 0            | 0  | 1  | 0  | 1  | 0/1 | 0  | 0  |
| *           | *               |                 | *               |                 | *               | 1            | 0  | 1  | 0  | 1  | 0/1 | 0  | 0  |
| *           |                 | *               | *               |                 | *               | 0            | 1  | 1  | 0  | 1  | 0/1 | 0  | 0  |
| *           | *               | *               | *               |                 | *               | 1            | 1  | 1  | 0  | 1  | 0/1 | 0  | 0  |
| *           |                 |                 |                 | *               | *               | 0            | 0  | 0  | 1  | 1  | 0/1 | 0  | 0  |
| *           | *               |                 |                 | *               | *               | 1            | 0  | 0  | 1  | 1  | 0/1 | 0  | 0  |
| *           |                 | *               |                 | *               | *               | 0            | 1  | 0  | 1  | 1  | 0/1 | 0  | 0  |
| *           | *               | *               |                 | *               | *               | 1            | 1  | 0  | 1  | 1  | 0/1 | 0  | 0  |
| *           |                 |                 | *               | *               | *               | 0            | 0  | 1  | 1  | 1  | 0/1 | 0  | 0  |
| *           | *               |                 | *               | *               | *               | 1            | 0  | 1  | 1  | 1  | 0/1 | 0  | 0  |
| *           |                 | *               | *               | *               | *               | 0            | 1  | 1  | 1  | 1  | 0/1 | 0  | 0  |
| *           | *               | *               | *               | *               | *               | 1            | 1  | 1  | 1  | 1  | 0/1 | 0  | 0  |

Note: \* = CS is connected to the respective KO Line.

For PT2650-001, Custom Code Bit 5 (C5) = "0".

For PT2560-003, Custom Code Bit 5 (C5) = "1".



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*PT2560-001/PT2560-003 Data Code Table for Application Circuit 3/4*

| No. | KI Lines        |                 |                 |                 | KO Lines        |                 |                 |                 |                 |                 |                 |                 | Data Code |    |    |    |    |
|-----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|----|----|----|----|
|     | KI <sub>0</sub> | KI <sub>1</sub> | KI <sub>2</sub> | KI <sub>3</sub> | KO <sub>0</sub> | KO <sub>1</sub> | KO <sub>2</sub> | KO <sub>3</sub> | KO <sub>4</sub> | KO <sub>5</sub> | KO <sub>6</sub> | KO <sub>7</sub> | D0        | D1 | D2 | D3 | D4 |
| 1   | *               |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | 0         | 0  | 0  | 0  | 0  |
| 2   |                 | *               |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | 1         | 0  | 0  | 0  | 0  |
| 3   |                 |                 | *               |                 | *               |                 |                 |                 |                 |                 |                 |                 | 0         | 1  | 0  | 0  | 0  |
| 4   |                 |                 |                 | *               | *               |                 |                 |                 |                 |                 |                 |                 | 1         | 1  | 0  | 0  | 0  |
| 5   | *               |                 |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 | 0         | 0  | 1  | 0  | 0  |
| 6   |                 | *               |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 | 1         | 0  | 1  | 0  | 0  |
| 7   |                 |                 | *               |                 |                 | *               |                 |                 |                 |                 |                 |                 | 0         | 1  | 1  | 0  | 0  |
| 8   |                 |                 |                 | *               |                 | *               |                 |                 |                 |                 |                 |                 | 1         | 1  | 1  | 0  | 0  |
| 9   | *               |                 |                 |                 |                 |                 | *               |                 |                 |                 |                 |                 | 0         | 0  | 0  | 1  | 0  |
| 10  |                 | *               |                 |                 |                 |                 | *               |                 |                 |                 |                 |                 | 1         | 0  | 0  | 1  | 0  |
| 11  |                 |                 | *               |                 |                 |                 | *               |                 |                 |                 |                 |                 | 0         | 1  | 0  | 1  | 0  |
| 12  |                 |                 |                 | *               |                 |                 | *               |                 |                 |                 |                 |                 | 1         | 1  | 0  | 1  | 0  |
| 13  | *               |                 |                 |                 |                 |                 |                 | *               |                 |                 |                 |                 | 0         | 0  | 1  | 1  | 0  |
| 14  |                 | *               |                 |                 |                 |                 |                 | *               |                 |                 |                 |                 | 1         | 0  | 1  | 1  | 0  |
| 15  |                 |                 | *               |                 |                 |                 |                 | *               |                 |                 |                 |                 | 0         | 1  | 1  | 1  | 0  |
| 16  |                 |                 |                 | *               |                 |                 |                 | *               |                 |                 |                 |                 | 1         | 1  | 1  | 1  | 0  |
| 17  | *               |                 |                 |                 |                 |                 |                 |                 | *               |                 |                 |                 | 0         | 0  | 0  | 0  | 1  |
| 18  |                 | *               |                 |                 |                 |                 |                 |                 | *               |                 |                 |                 | 1         | 0  | 0  | 0  | 1  |
| 19  |                 |                 | *               |                 |                 |                 |                 |                 | *               |                 |                 |                 | 0         | 1  | 0  | 0  | 1  |
| 20  |                 |                 |                 | *               |                 |                 |                 |                 | *               |                 |                 |                 | 1         | 1  | 0  | 0  | 1  |
| 21  | *               |                 |                 |                 |                 |                 |                 |                 |                 | *               |                 |                 | 0         | 0  | 1  | 0  | 1  |
| 22  |                 | *               |                 |                 |                 |                 |                 |                 |                 | *               |                 |                 | 1         | 0  | 1  | 0  | 1  |
| 23  |                 |                 | *               |                 |                 |                 |                 |                 |                 | *               |                 |                 | 0         | 1  | 1  | 0  | 1  |
| 24  |                 |                 |                 | *               |                 |                 |                 |                 |                 | *               |                 |                 | 1         | 1  | 1  | 0  | 1  |
| 25  | *               |                 |                 |                 |                 |                 |                 |                 |                 |                 | *               |                 | 0         | 0  | 0  | 1  | 1  |
| 26  |                 | *               |                 |                 |                 |                 |                 |                 |                 |                 | *               |                 | 1         | 0  | 0  | 1  | 1  |
| 27  |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | *               |                 | 0         | 1  | 0  | 1  | 1  |
| 28  |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 | *               |                 | 1         | 1  | 0  | 1  | 1  |
| 29  | *               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | *               | 0         | 0  | 1  | 1  | 1  |
| 30  |                 | *               |                 |                 |                 |                 |                 |                 |                 |                 |                 | *               | 1         | 0  | 1  | 1  | 1  |
| 31  |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 |                 | *               | 0         | 1  | 1  | 1  | 1  |
| 32  |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | *               | 1         | 1  | 1  | 1  | 1  |

| Input<br>CS | KO Lines        |                 |                 | Data Code |    |    |
|-------------|-----------------|-----------------|-----------------|-----------|----|----|
|             | KO <sub>5</sub> | KO <sub>6</sub> | KO <sub>7</sub> | D5        | D6 | D7 |
|             |                 |                 |                 | 0         | 0  | 0  |
| *           | *               |                 |                 | 1         | 0  | 0  |
| *           |                 | *               |                 | 0         | 1  | 0  |
| *           | *               | *               |                 | 1         | 1  | 0  |
| *           |                 |                 | *               | 0         | 0  | 1  |
| *           | *               |                 | *               | 1         | 0  | 1  |
| *           |                 | *               | *               | 0         | 1  | 1  |
| *           | *               | *               | *               | 1         | 1  | 1  |



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Infrared Remote Control Transmitter

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PT2560

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*PT2560-001/PT2560-003 Data Code Table for Application Circuit 3/4 (Extended Keys)*

| No. | Input | KI Lines        |                 |                 |                 | KO Lines        |                 |                 | Data Code |    |    |    |    |    |    |    |
|-----|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|----|----|----|----|----|----|----|
|     | CS    | KI <sub>0</sub> | KI <sub>1</sub> | KI <sub>2</sub> | KI <sub>3</sub> | KO <sub>5</sub> | KO <sub>6</sub> | KO <sub>7</sub> | D0        | D1 | D2 | D3 | D4 | D5 | D6 | D7 |
| 33  | *     | *               |                 |                 |                 | *               |                 |                 | 0         | 0  | 1  | 0  | 1  | 1  | 0  | 0  |
| 34  | *     |                 | *               |                 |                 | *               |                 |                 | 1         | 0  | 1  | 0  | 1  | 1  | 0  | 0  |
| 35  | *     |                 |                 | *               |                 | *               |                 |                 | 0         | 1  | 1  | 0  | 1  | 1  | 0  | 0  |
| 36  | *     |                 |                 |                 | *               | *               |                 |                 | 1         | 1  | 1  | 0  | 1  | 1  | 0  | 0  |
| 37  | *     | *               |                 |                 |                 |                 | *               |                 | 0         | 0  | 0  | 1  | 1  | 0  | 1  | 0  |
| 38  | *     |                 | *               |                 |                 |                 | *               |                 | 1         | 0  | 0  | 1  | 1  | 0  | 1  | 0  |
| 39  | *     |                 |                 | *               |                 |                 | *               |                 | 0         | 1  | 0  | 1  | 1  | 0  | 1  | 0  |
| 40  | *     |                 |                 |                 | *               |                 | *               |                 | 1         | 1  | 0  | 1  | 1  | 0  | 1  | 0  |
| 41  | *     | *               |                 |                 |                 |                 |                 | *               | 0         | 0  | 1  | 1  | 1  | 0  | 0  | 1  |
| 42  | *     |                 | *               |                 |                 |                 |                 | *               | 1         | 0  | 1  | 1  | 1  | 0  | 0  | 1  |
| 43  | *     |                 |                 | *               |                 |                 |                 | *               | 0         | 1  | 1  | 1  | 1  | 0  | 0  | 1  |
| 44  | *     |                 |                 |                 | *               |                 |                 | *               | 1         | 1  | 1  | 1  | 1  | 0  | 0  | 1  |



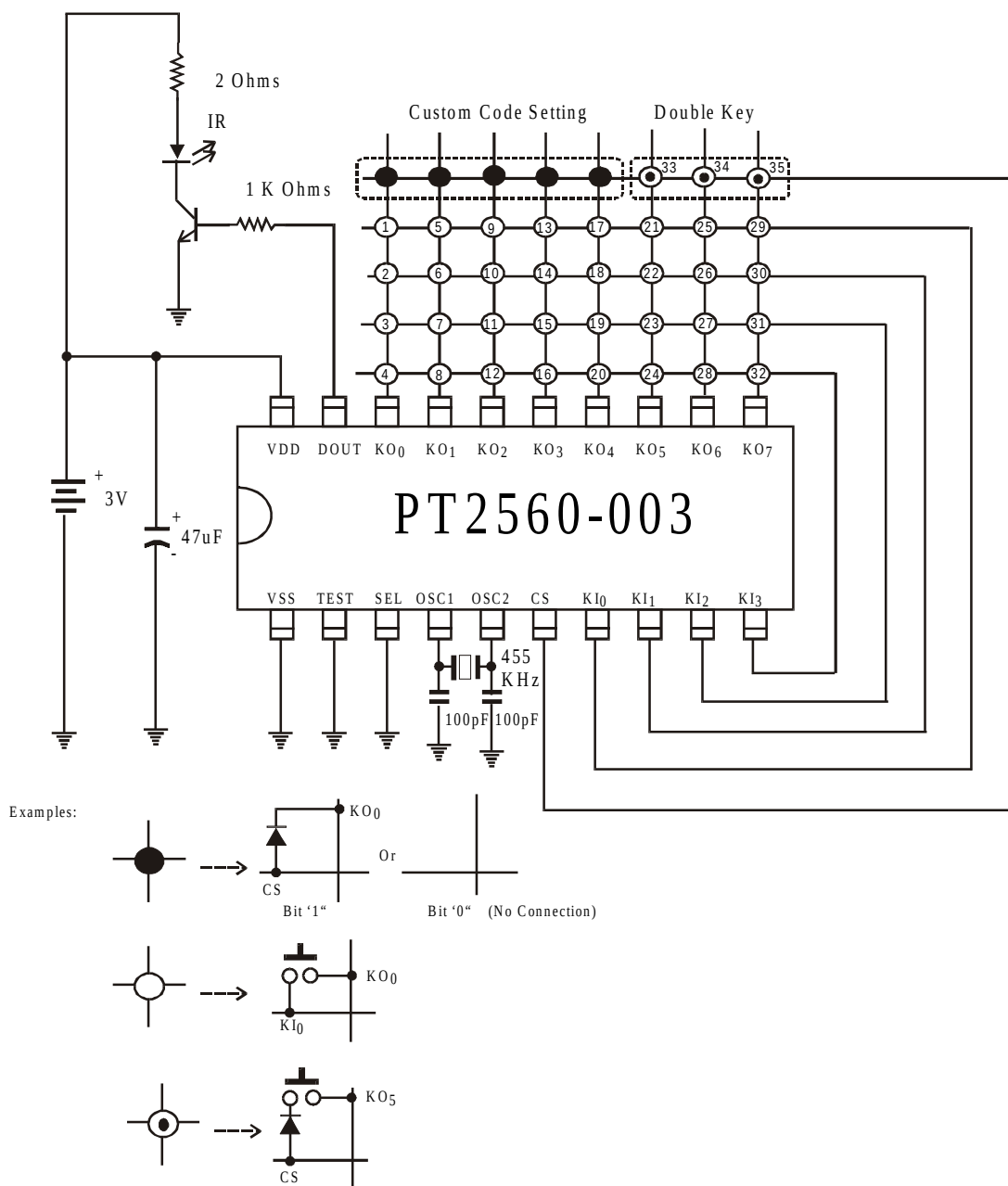


## Infrared Remote Control Transmitter

PT2560

### Application Circuit 6

(Double Key Operation)



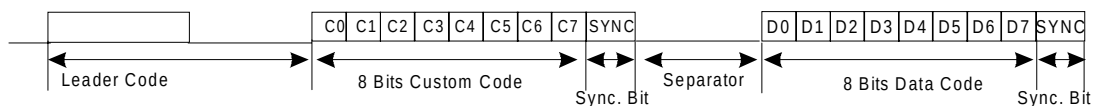
Note: Please take note that if you are replacing M50560 with PT2560, you do not need to connect an external capacitor to PT2560's Pin No. 3 (SEL PIN). PT2560 SEL Pin must be connected to the Ground.



## Infrared Remote Control Transmitter

## PT2560

## Application Circuit 5 &amp; 6 (Double Key Operation)



PT2560-001/PT2560-003 Custom Code Table for Application Circuit 5/6

| Input | KO Lines        |                 |                 |                 |                 | Custom Codes |    |    |    |    |     |    |    |
|-------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|----|----|----|----|-----|----|----|
| CS    | KO <sub>0</sub> | KO <sub>1</sub> | KO <sub>2</sub> | KO <sub>3</sub> | KO <sub>4</sub> | C0           | C1 | C2 | C3 | C4 | C5  | C6 | C7 |
|       |                 |                 |                 |                 |                 | 0            | 0  | 0  | 0  | 0  | 0/1 | 0  | 0  |
| *     | *               |                 |                 |                 |                 | 1            | 0  | 0  | 0  | 0  | 0/1 | 0  | 0  |
| *     |                 | *               |                 |                 |                 | 0            | 1  | 0  | 0  | 0  | 0/1 | 0  | 0  |
| *     | *               | *               |                 |                 |                 | 1            | 1  | 0  | 0  | 0  | 0/1 | 0  | 0  |
| *     |                 |                 | *               |                 |                 | 0            | 0  | 1  | 0  | 0  | 0/1 | 0  | 0  |
| *     | *               |                 | *               |                 |                 | 1            | 0  | 1  | 0  | 0  | 0/1 | 0  | 0  |
| *     |                 | *               | *               |                 |                 | 0            | 1  | 1  | 0  | 0  | 0/1 | 0  | 0  |
| *     | *               | *               | *               |                 |                 | 1            | 1  | 1  | 0  | 0  | 0/1 | 0  | 0  |
| *     |                 |                 |                 | *               |                 | 0            | 0  | 0  | 1  | 0  | 0/1 | 0  | 0  |
| *     | *               |                 |                 | *               |                 | 1            | 0  | 0  | 1  | 0  | 0/1 | 0  | 0  |
| *     |                 | *               |                 | *               |                 | 0            | 1  | 0  | 1  | 0  | 0/1 | 0  | 0  |
| *     | *               | *               |                 | *               |                 | 1            | 1  | 0  | 1  | 0  | 0/1 | 0  | 0  |
| *     |                 |                 | *               | *               |                 | 0            | 0  | 1  | 1  | 0  | 0/1 | 0  | 0  |
| *     | *               |                 | *               | *               |                 | 1            | 0  | 1  | 1  | 0  | 0/1 | 0  | 0  |
| *     |                 | *               | *               | *               |                 | 0            | 1  | 1  | 1  | 0  | 0/1 | 0  | 0  |
| *     | *               | *               | *               | *               |                 | 1            | 1  | 1  | 1  | 0  | 0/1 | 0  | 0  |
| *     |                 |                 |                 |                 | *               | 0            | 0  | 0  | 0  | 1  | 0/1 | 0  | 0  |
| *     | *               |                 |                 |                 | *               | 1            | 0  | 0  | 0  | 1  | 0/1 | 0  | 0  |
| *     |                 | *               |                 |                 | *               | 0            | 1  | 0  | 0  | 1  | 0/1 | 0  | 0  |
| *     | *               | *               |                 |                 | *               | 1            | 1  | 0  | 0  | 1  | 0/1 | 0  | 0  |
| *     |                 |                 | *               |                 | *               | 0            | 0  | 1  | 0  | 1  | 0/1 | 0  | 0  |
| *     | *               |                 | *               |                 | *               | 1            | 0  | 1  | 0  | 1  | 0/1 | 0  | 0  |
| *     |                 | *               | *               |                 | *               | 0            | 1  | 1  | 0  | 1  | 0/1 | 0  | 0  |
| *     | *               | *               | *               |                 | *               | 1            | 1  | 1  | 0  | 1  | 0/1 | 0  | 0  |
| *     |                 |                 |                 | *               | *               | 0            | 0  | 0  | 1  | 1  | 0/1 | 0  | 0  |
| *     | *               |                 |                 | *               | *               | 1            | 0  | 0  | 1  | 1  | 0/1 | 0  | 0  |
| *     |                 | *               |                 | *               | *               | 0            | 1  | 0  | 1  | 1  | 0/1 | 0  | 0  |
| *     | *               | *               |                 | *               | *               | 1            | 1  | 0  | 1  | 1  | 0/1 | 0  | 0  |
| *     |                 |                 | *               | *               | *               | 0            | 0  | 1  | 1  | 1  | 0/1 | 0  | 0  |
| *     | *               |                 | *               | *               | *               | 1            | 0  | 1  | 1  | 1  | 0/1 | 0  | 0  |
| *     |                 | *               | *               | *               | *               | 0            | 1  | 1  | 1  | 1  | 0/1 | 0  | 0  |
| *     | *               | *               | *               | *               | *               | 1            | 1  | 1  | 1  | 1  | 0/1 | 0  | 0  |

Note: \* = CS is connected to the respective KO Line.

For PT2560-001, Custom Code Bit 5 (C5) = "0".

For PT2560-003, Custom Code Bit 5 (C5) = "1".



## Infrared Remote Control Transmitter

## PT2560

*PT2560-001/PT2560-003 Data Code Table for Application Circuit 5/6*

| No. | KI Lines        |                 |                 |                 | KO Lines        |                 |                 |                 |                 |                 |                 |                 | Data Code |    |    |    |    |
|-----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|----|----|----|----|
|     | KI <sub>0</sub> | KI <sub>1</sub> | KI <sub>2</sub> | KI <sub>3</sub> | KO <sub>0</sub> | KO <sub>1</sub> | KO <sub>2</sub> | KO <sub>3</sub> | KO <sub>4</sub> | KO <sub>5</sub> | KO <sub>6</sub> | KO <sub>7</sub> | D0        | D1 | D2 | D3 | D4 |
| 1   | *               |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | 0         | 0  | 0  | 0  | 0  |
| 2   |                 | *               |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | 1         | 0  | 0  | 0  | 0  |
| 3   |                 |                 | *               |                 | *               |                 |                 |                 |                 |                 |                 |                 | 0         | 1  | 0  | 0  | 0  |
| 4   |                 |                 |                 | *               | *               |                 |                 |                 |                 |                 |                 |                 | 1         | 1  | 0  | 0  | 0  |
| 5   | *               |                 |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 | 0         | 0  | 1  | 0  | 0  |
| 6   |                 | *               |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 | 1         | 0  | 1  | 0  | 0  |
| 7   |                 |                 | *               |                 |                 | *               |                 |                 |                 |                 |                 |                 | 0         | 1  | 1  | 0  | 0  |
| 8   |                 |                 |                 | *               |                 | *               |                 |                 |                 |                 |                 |                 | 1         | 1  | 1  | 0  | 0  |
| 9   | *               |                 |                 |                 |                 |                 | *               |                 |                 |                 |                 |                 | 0         | 0  | 0  | 1  | 0  |
| 10  |                 | *               |                 |                 |                 |                 | *               |                 |                 |                 |                 |                 | 1         | 0  | 0  | 1  | 0  |
| 11  |                 |                 | *               |                 |                 |                 | *               |                 |                 |                 |                 |                 | 0         | 1  | 0  | 1  | 0  |
| 12  |                 |                 |                 | *               |                 |                 | *               |                 |                 |                 |                 |                 | 1         | 1  | 0  | 1  | 0  |
| 13  | *               |                 |                 |                 |                 |                 |                 | *               |                 |                 |                 |                 | 0         | 0  | 1  | 1  | 0  |
| 14  |                 | *               |                 |                 |                 |                 |                 | *               |                 |                 |                 |                 | 1         | 0  | 1  | 1  | 0  |
| 15  |                 |                 | *               |                 |                 |                 |                 | *               |                 |                 |                 |                 | 0         | 1  | 1  | 1  | 0  |
| 16  |                 |                 |                 | *               |                 |                 |                 | *               |                 |                 |                 |                 | 1         | 1  | 1  | 1  | 0  |
| 17  | *               |                 |                 |                 |                 |                 |                 |                 | *               |                 |                 |                 | 0         | 0  | 0  | 0  | 1  |
| 18  |                 | *               |                 |                 |                 |                 |                 |                 | *               |                 |                 |                 | 1         | 0  | 0  | 0  | 1  |
| 19  |                 |                 | *               |                 |                 |                 |                 |                 | *               |                 |                 |                 | 0         | 1  | 0  | 0  | 1  |
| 20  |                 |                 |                 | *               |                 |                 |                 |                 | *               |                 |                 |                 | 1         | 1  | 0  | 0  | 1  |
| 21  | *               |                 |                 |                 |                 |                 |                 |                 |                 | *               |                 |                 | 0         | 0  | 1  | 0  | 1  |
| 22  |                 | *               |                 |                 |                 |                 |                 |                 |                 | *               |                 |                 | 1         | 0  | 1  | 0  | 1  |
| 23  |                 |                 | *               |                 |                 |                 |                 |                 |                 | *               |                 |                 | 0         | 1  | 1  | 0  | 1  |
| 24  |                 |                 |                 | *               |                 |                 |                 |                 |                 | *               |                 |                 | 1         | 1  | 1  | 0  | 1  |
| 25  | *               |                 |                 |                 |                 |                 |                 |                 |                 |                 | *               |                 | 0         | 0  | 0  | 1  | 1  |
| 26  |                 | *               |                 |                 |                 |                 |                 |                 |                 |                 | *               |                 | 1         | 0  | 0  | 1  | 1  |
| 27  |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | *               |                 | 0         | 1  | 0  | 1  | 1  |
| 28  |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 | *               |                 | 1         | 1  | 0  | 1  | 1  |
| 29  | *               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | *               | 0         | 0  | 1  | 1  | 1  |
| 30  |                 | *               |                 |                 |                 |                 |                 |                 |                 |                 |                 | *               | 1         | 0  | 1  | 1  | 1  |
| 31  |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 |                 | *               | 0         | 1  | 1  | 1  | 1  |
| 32  |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | *               | 1         | 1  | 1  | 1  | 1  |

*PT2560-001/PT2560-003 Data Code Table for Double Key Operation*

| Double Keys<br>Key Nos. | Input<br>CS | KO Lines        |                 |                 | Data Code |    |    |
|-------------------------|-------------|-----------------|-----------------|-----------------|-----------|----|----|
|                         |             | KO <sub>5</sub> | KO <sub>6</sub> | KO <sub>7</sub> | D5        | D6 | D7 |
|                         |             |                 |                 |                 | 0         | 0  | 0  |
| 33                      | *           | *               |                 |                 | 1         | 0  | 0  |
| 34                      | *           |                 | *               |                 | 0         | 1  | 0  |
| 33+34                   | *           | *               | *               |                 | 1         | 1  | 0  |
| 35                      | *           |                 |                 | *               | 0         | 0  | 1  |
| 33+35                   | *           | *               |                 | *               | 1         | 0  | 1  |
| 34+35                   | *           |                 | *               | *               | 0         | 1  | 1  |
| 33+34+35                | *           | *               | *               | *               | 1         | 1  | 1  |



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## Infrared Remote Control Transmitter

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Example 1: When the Double Key Operation is NOT used and the Key No. 2 is pressed, then the Data Code will be:

| D0 | D1 | D2 | D3 | D4 | D5       | D6       | D7       |
|----|----|----|----|----|----------|----------|----------|
| 1  | 0  | 0  | 0  | 0  | <u>0</u> | <u>0</u> | <u>0</u> |

Take note that since the Double Key Operation is NOT used, the value of data bits D5, D6, and D7 is "0".

Example 2: When only 1 Double Key (Key Nos. 33 + Key No. 2) is used, then the Data Code is

| D0 | D1 | D2 | D3 | D4 | D5       | D6       | D7       |
|----|----|----|----|----|----------|----------|----------|
| 1  | 0  | 0  | 0  | 0  | <u>1</u> | <u>0</u> | <u>0</u> |

Example 3: When 2 Double Keys (Key Nos. [33 + 35] + Key No. 2) are used, the Data Code is

| D0 | D1 | D2 | D3 | D4 | D5       | D6       | D7       |
|----|----|----|----|----|----------|----------|----------|
| 1  | 0  | 0  | 0  | 0  | <u>1</u> | <u>0</u> | <u>1</u> |



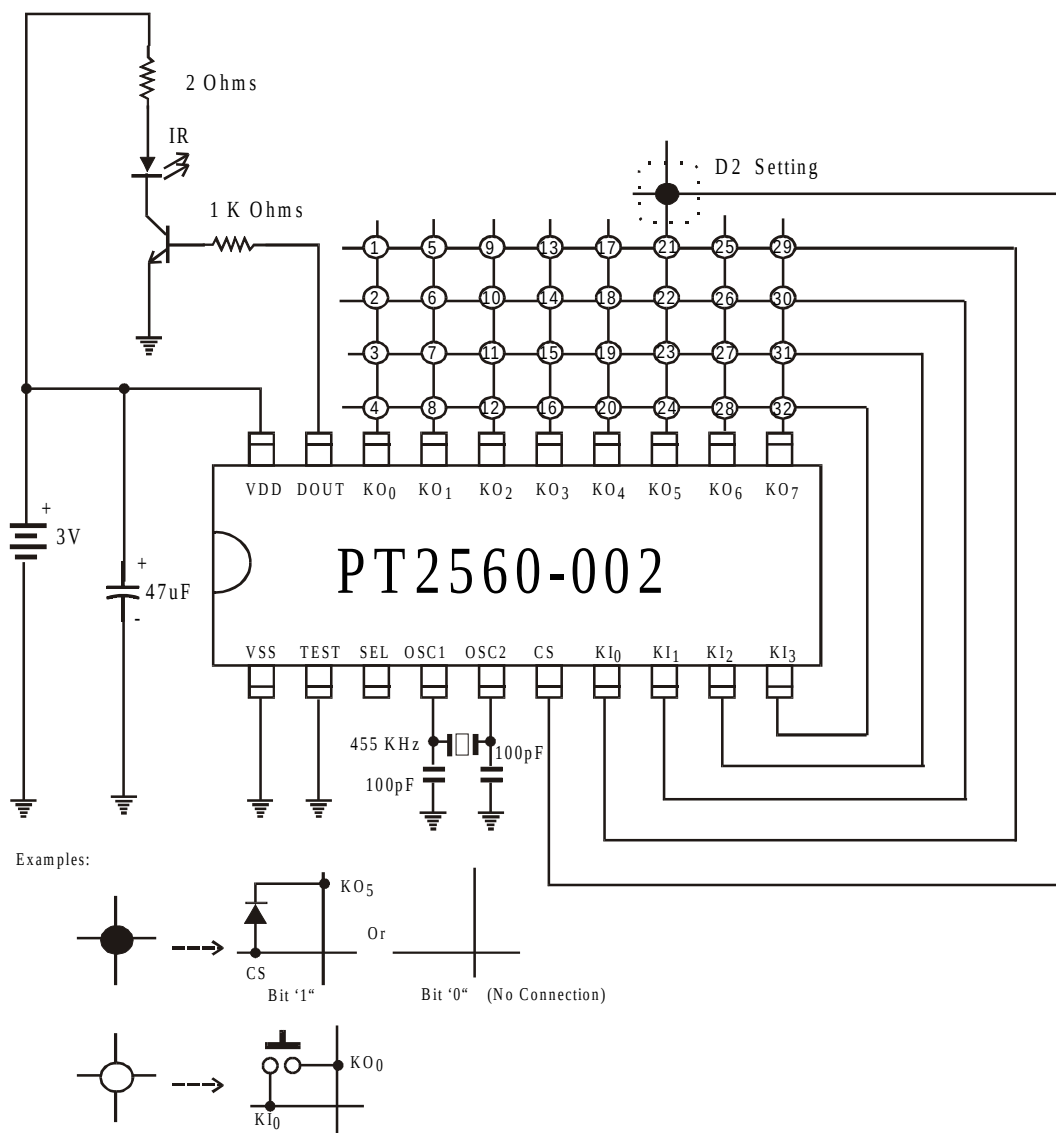


## Infrared Remote Control Transmitter

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**Application Circuit 7**

(No Leader Code and Custom Code)



Note: D2 is the Extended Code setting. When KO<sub>5</sub> is connected to a DIODE, the Data Bit D5 is "1". Conversely, if the KO<sub>5</sub> is not connected to a DIODE, then the Data Bit, D5 is "0". PT2560 SEL Pin is "floating".



## Infrared Remote Control Transmitter

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*PT2560-002 Data Code Table for Application Circuit 7 (MODE B)*

| No. | KI Lines        |                 |                 |                 | KO Lines        |                 |                 |                 |                 |                 |                 |                 | Data Code |    |    |    |    |     |
|-----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------|----|----|----|----|-----|
|     | KI <sub>0</sub> | KI <sub>1</sub> | KI <sub>2</sub> | KI <sub>3</sub> | KO <sub>0</sub> | KO <sub>1</sub> | KO <sub>2</sub> | KO <sub>3</sub> | KO <sub>4</sub> | KO <sub>5</sub> | KO <sub>6</sub> | KO <sub>7</sub> | D0        | D1 | D2 | D3 | D4 | D5  |
| 1   | *               |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | 0         | 0  | 0  | 0  | 0  | 0/1 |
| 2   |                 | *               |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | 1         | 0  | 0  | 0  | 0  | 0/1 |
| 3   |                 |                 | *               |                 | *               |                 |                 |                 |                 |                 |                 |                 | 0         | 1  | 0  | 0  | 0  | 0/1 |
| 4   |                 |                 |                 | *               | *               |                 |                 |                 |                 |                 |                 |                 | 1         | 1  | 0  | 0  | 0  | 0/1 |
| 5   | *               |                 |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 | 0         | 0  | 1  | 0  | 0  | 0/1 |
| 6   |                 | *               |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 | 1         | 0  | 1  | 0  | 0  | 0/1 |
| 7   |                 |                 | *               |                 |                 | *               |                 |                 |                 |                 |                 |                 | 0         | 1  | 1  | 0  | 0  | 0/1 |
| 8   |                 |                 |                 | *               |                 | *               |                 |                 |                 |                 |                 |                 | 1         | 1  | 1  | 0  | 0  | 0/1 |
| 9   | *               |                 |                 |                 |                 |                 | *               |                 |                 |                 |                 |                 | 0         | 0  | 0  | 1  | 0  | 0/1 |
| 10  |                 | *               |                 |                 |                 |                 | *               |                 |                 |                 |                 |                 | 1         | 0  | 0  | 1  | 0  | 0/1 |
| 11  |                 |                 | *               |                 |                 |                 | *               |                 |                 |                 |                 |                 | 0         | 1  | 0  | 1  | 0  | 0/1 |
| 12  |                 |                 |                 | *               |                 |                 | *               |                 |                 |                 |                 |                 | 1         | 1  | 0  | 1  | 0  | 0/1 |
| 13  | *               |                 |                 |                 |                 |                 |                 | *               |                 |                 |                 |                 | 0         | 0  | 1  | 1  | 0  | 0/1 |
| 14  |                 | *               |                 |                 |                 |                 |                 | *               |                 |                 |                 |                 | 1         | 0  | 1  | 1  | 0  | 0/1 |
| 15  |                 |                 | *               |                 |                 |                 |                 | *               |                 |                 |                 |                 | 0         | 1  | 1  | 1  | 0  | 0/1 |
| 16  |                 |                 |                 | *               |                 |                 |                 | *               |                 |                 |                 |                 | 1         | 1  | 1  | 1  | 0  | 0/1 |
| 17  | *               |                 |                 |                 |                 |                 |                 |                 | *               |                 |                 |                 | 0         | 0  | 0  | 0  | 1  | 0/1 |
| 18  |                 | *               |                 |                 |                 |                 |                 |                 | *               |                 |                 |                 | 1         | 0  | 0  | 0  | 1  | 0/1 |
| 19  |                 |                 | *               |                 |                 |                 |                 |                 | *               |                 |                 |                 | 0         | 1  | 0  | 0  | 1  | 0/1 |
| 20  |                 |                 |                 | *               |                 |                 |                 |                 | *               |                 |                 |                 | 1         | 1  | 0  | 0  | 1  | 0/1 |
| 21  | *               |                 |                 |                 |                 |                 |                 |                 |                 | *               |                 |                 | 0         | 0  | 1  | 0  | 1  | 0/1 |
| 22  |                 | *               |                 |                 |                 |                 |                 |                 |                 | *               |                 |                 | 1         | 0  | 1  | 0  | 1  | 0/1 |
| 23  |                 |                 | *               |                 |                 |                 |                 |                 |                 | *               |                 |                 | 0         | 1  | 1  | 0  | 1  | 0/1 |
| 24  |                 |                 |                 | *               |                 |                 |                 |                 |                 | *               |                 |                 | 1         | 1  | 1  | 0  | 1  | 0/1 |
| 25  | *               |                 |                 |                 |                 |                 |                 |                 |                 |                 | *               |                 | 0         | 0  | 0  | 1  | 1  | 0/1 |
| 26  |                 | *               |                 |                 |                 |                 |                 |                 |                 |                 | *               |                 | 1         | 0  | 0  | 1  | 1  | 0/1 |
| 27  |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | *               |                 | 0         | 1  | 0  | 1  | 1  | 0/1 |
| 28  |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 | *               |                 | 1         | 1  | 0  | 1  | 1  | 0/1 |
| 29  | *               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | *               | 0         | 0  | 1  | 1  | 1  | 0/1 |
| 30  |                 | *               |                 |                 |                 |                 |                 |                 |                 |                 |                 | *               | 1         | 0  | 1  | 1  | 1  | 0/1 |
| 31  |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 |                 | *               | 0         | 1  | 1  | 1  | 1  | 0/1 |
| 32  |                 |                 |                 | *               |                 |                 |                 |                 |                 |                 |                 | *               | 1         | 1  | 1  | 1  | 1  | 0/1 |



## О компании

ООО "ТрейдЭлектроникс" - это оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов. Реализуемая нашей компанией продукция насчитывает более полумиллиона наименований.

Благодаря этому наша компания предлагает к поставке практически не ограниченный ассортимент компонентов как оптовыми, мелкооптовыми партиями, так и в розницу.

Наличие собственной эффективной системы логистики обеспечивает надежную поставку продукции по конкурентным ценам в точно указанные сроки.

Срок поставки со стоков в **Европе и Америке – от 3 до 14 дней.**

Срок поставки из **Азии – от 10 дней.**

Благодаря развитой сети поставщиков, помогаем в поиске и приобретении экзотичных или снятых с производства компонентов.

Предоставляем спец цены на элементы для создания инженерных сэмплов.

**Упорный труд, качественный результат дают нам право быть уверенными в себе и надежными для наших клиентов.**

### **Наша компания это:**

- Гарантия качества поставляемой продукции
- Широкий ассортимент
- Минимальные сроки поставок
- Техническая поддержка
- Подбор комплектации
- Индивидуальный подход
- Гибкое ценообразование

Наша организация особенно сильна в поставках модулей, микросхем, пассивных компонентов, ксайленсах (XC), EPF, EPM и силовой электроники.

Большой выбор предлагаемой продукции, различные виды оплаты и доставки, позволят Вам сэкономить время и получить максимум выгоды от сотрудничества с нами!

## Перечень производителей, продукцию которых мы поставляем на российский рынок





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гарантия бесперебойности производства и  
качества выпускаемой продукции

С удовольствием будем прорабатывать для Вас поставки всех необходимых компонентов по текущим запросам для скорейшего выявления групп элементов, по которым сотрудничество именно с нашей компанией будет для Вас максимально выгодным!

С уважением,

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