

DESCRIPTION

The PT2221M and PT2222M are remote control transmitters utilizing CMOS technology specially designed for use on infrared remote control applications. They are pin-to-pin compatible with NEC $\mu\text{PD}6121$ and $\mu\text{PD}6122$ respectively. PT2221M is packaged in 20 pins SO and capable of controlling 32 functions and 3 double keys. PT2222M, on the other hand, is housed in 24 pins SOP and capable of controlling 64 function keys and 3 double keys. PT2221M/PT2222M may be paired with PT2225 to construct a powerful remote control system.

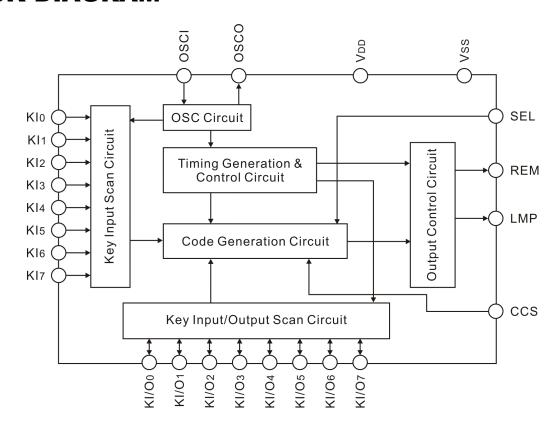
APPLICATIONS

- Audio equipment
- Television (TV)
- Cable TV tuner
- Video cassette recorder (VCR)
- Cassette deck
- Air conditioner
- Video compact disk (VCD)
- DVD ROM player
- Moniputer/Multi-media personal computer system

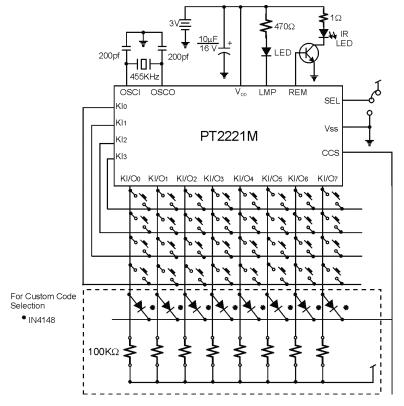
FEATURES

- CMOS technology
- Low power consumption (VDD=2.0 to 3.3V)
- Pin-to-Pin compatible with μPD6121/μPD6122
- Using SEL pin, PT2221M can support 64+6 function codes
- Using SEL pin, PT2222M can support 128+6 function codes
- Customer code can be selected (please contact PTC for details)
- Available in COB package

BLOCK DIAGRAM



APPLICATION CIRCUIT 1

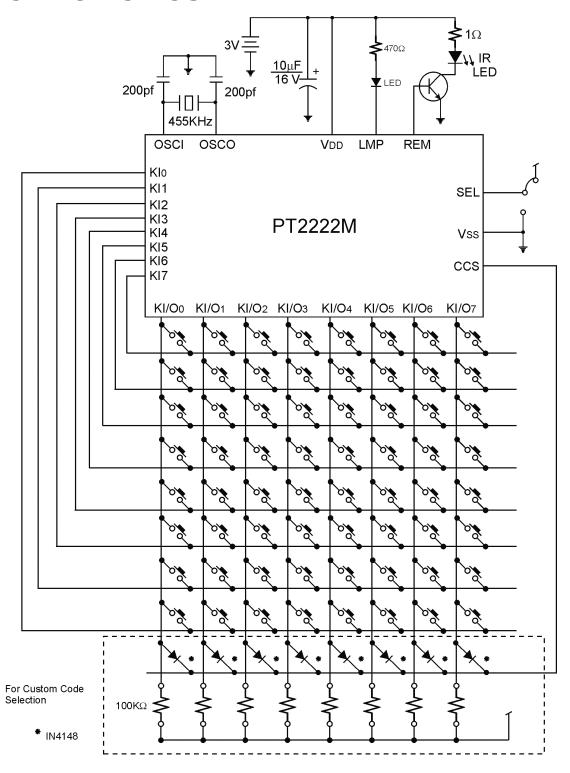


Note:

The Vcc and Vss Terminals must be "SHORT" before the batteries are loaded to the transmitter handset to insure that PT2221M Power On Reset Function will operate properly.

V1.2 2 of 20

APPLICATION CIRCUIT 2



Note:

The Vcc and Vss Terminals must be "SHORT" before the batteries are loaded to the transmitter handset to insure that PT2222M Power On Reset Function will operate properly.

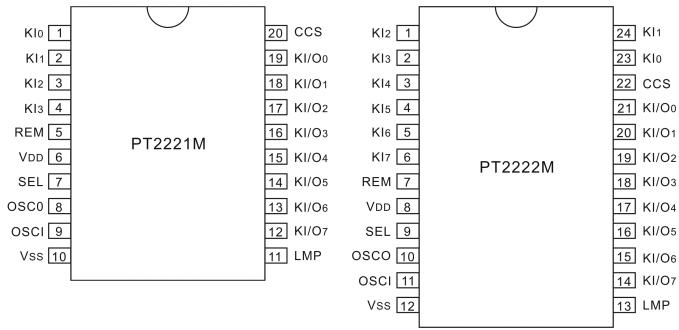
V1.2 3 of 20



ORDER INFORMATION

Valid Part Number	Package Type	Top Code	
PT2222M-001	СОВ	-	
PT2221M-001-D	20 Pins, DIP, 300mil	PT2221M-001-D	
PT2221M-001	20 Pins, SOP, 300mil	PT2221M-001	
PT2221M-002	20 Pins, SOP, 300mil	PT2221M-002	
PT2222M-001	24 Pins, SOP, 300mil	PT2222M-001	
PT2222M-002	24 Pins, SOP, 300mil	PT2222M-002	

PIN CONFIGURATION



V1.2 4 of 20



PIN DESCRIPTION

Pin Name	I/O	Description	Pin No.	
			20 Pins	24 Pins
Vss	-	Power supply	10	12
KI0 to KI3	I	Key input pin No. 0 to 3	1 to 4	23, 24, 1, 2
KI4 to KI7	I	Key input pin No. 4 to 7	-	3 to 6
REM	0	Data output pin	5	7
VDD	-	Power supply	6	8
SEL	I	Select pin	7	9
OSCO	0	Oscillator pin	8	10
OSCI	I	Oscillator pin	9	11
CCS	I	Custom code scan input pin	20	22
LMP	-	Output LED indicator	11	13
KI/O0 to KI/O7	I/O	Key input/output pin No. 0 to 7	19 to 12	21 to 14

V1.2 5 of 20



IMPORTANT NOTICE

Princeton Technology Corporation (PTC) reserves the right to make corrections, modifications, enhancements, improvements, and other changes to its products and to discontinue any product without notice at any time. PTC cannot assume responsibility for use of any circuitry other than circuitry entirely embodied in a PTC product. No circuit patent licenses are implied.

Princeton Technology Corp. 2F, 233-1, Baociao Road, Sindian Dist., New Taipei City 23145, Taiwan Tel: 886-2-66296288

Fax: 886-2-29174598 http://www.princeton.com.tw

V1.2 19 of 20