Princeton Technology Corp.

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Multi-Channel AV Control Center IC **PT2320**

DESCRIPTION

PT2320 is a Modern Multi-Channel AV Control Center IC. Eight group input selectors (seven stereo inputs & one 6-channel individual input), 4 video inputs, 6-channel master volume control, 6-channel individual volume trim control, 3-band tone control (treble, middle, and bass), recording output, selector output, mute function, 3D effect function, tone defeat function are all built into a single chip to provide a Comprehensive and Complete AV Center IC having the highest performance and reliability with the least components. Furthermore, the pin assignments and application circuit are optimized for easy PCB Layout and cost saving benefits. Housed in 100 pins, QFP Package, PT2320 is the ultimate answer to your every audio/video system needs.

FEATURES

- Very Low Power Consumption (DC=9V)
- I^2C Bus Control
- 8 Group Input Selectors (One 6-Channel Individual Input and 7 Stereo Input)
- 4 Video Input Selectors
- 6-Channel Master Volume Control: 0 to -79 dB (1 dB/step)
- 6-Channel Individual Output TRIM Volume Control: 0 to -15 dB (1dB/step)
- 3-Band Tone Control (Treble, Middle, Bass): $\pm$ 14dB , 2dB/step
- Recording Output, Mute Function, Selector Output
- 3D Effect Function
- Tone Defeat Function
- Low Noise
- High Channel Separation
- Low Harmonic Distortion
- Least External Components
- Easy to Use
- Available in 100-pin, QFP Package

APPLICATIONS

- Audio/Video System
- Multi-Media Speakers
- TV System
- PC Audio
- AC3 Amplifier System

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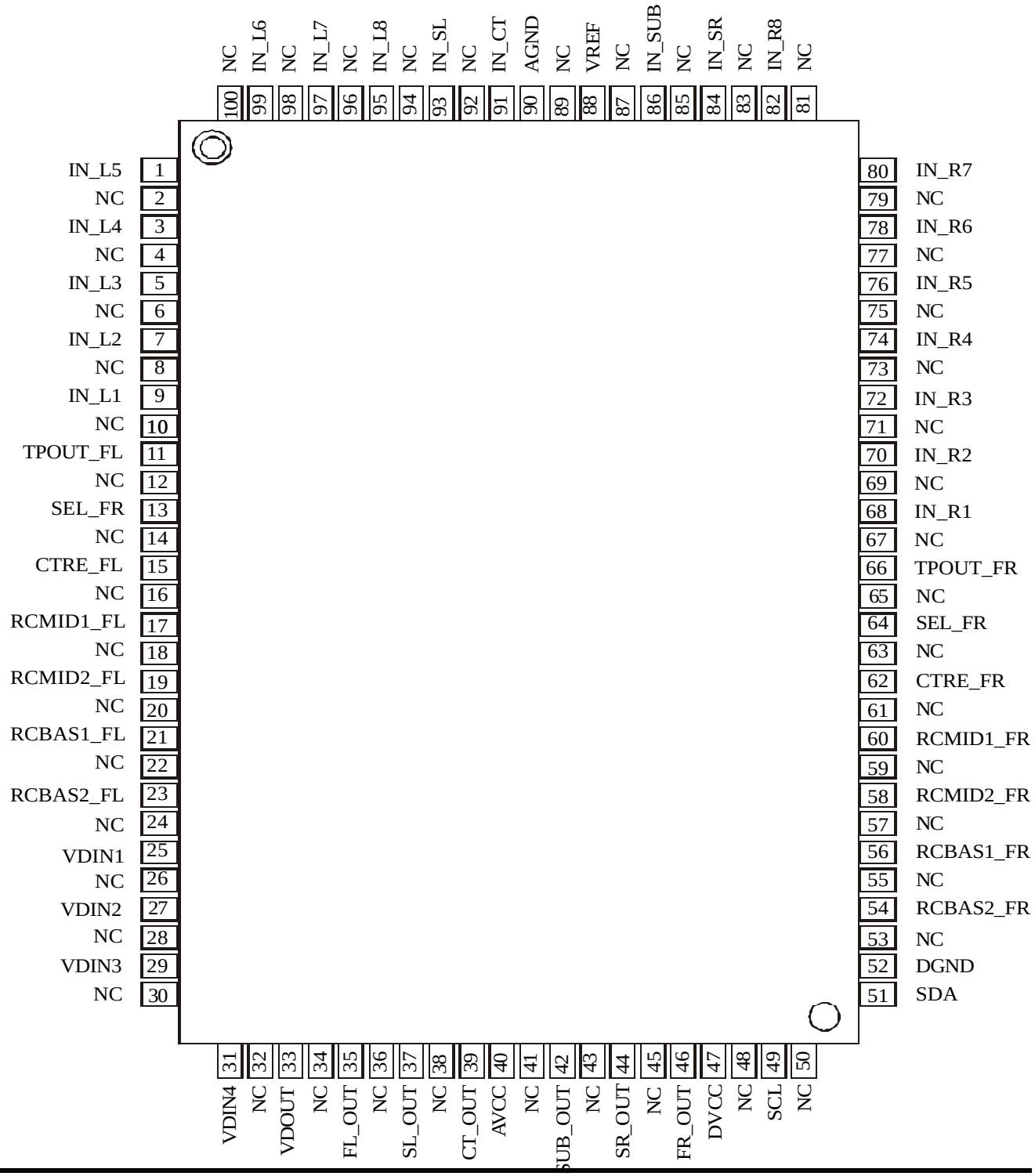
PIN CONFIGURATION

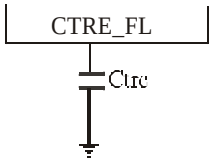


PIN DESCRIPTION

Pin Name	I/O	Description	Pin No.
IN_L5	I	Left Channel Input Pin 5	1
IN_L4	I	Left Channel Input Pin 4	3
IN_L3	I	Left Channel Input Pin 3	5
IN_L2	I	Left Channel Input Pin 2	7
IN_L1	I	Left Channel Input Pin 1	9
TPOUT_FL	O	Left Channel Tape Output Pin	11
SEL_FL	O	Left Channel Input Select Individual Output Pin	13
CTRE_FL	-	Left Chanel Treble Control Pin (note 1)	15
RCMID1_FL	-	Left Channel Middle Control Pin 1 (note 2)	17
RCMID2_FL	-	Left Channel Middle Control Pin 2 (note 2)	19
RCBAS1_FL	_	Left Channel Bass Control Pin 1 (note 3)	21
RCBAS2_FL	-	Left Channel Bass Control Pin 2 (note 3)	23
VDIN1	I	Video Signal Input Pin 1	25
VDIN2	I	Video Signal Input Pin 2	27
VDIN3	I	Video Signal Input Pin 3	29
VDIN4	I	Video Signal Input Pin 4	31
VDOUT	O	Video Select Output Pin	33
FL_OUT	O	Audio Left Front Channel Output Pin	35
SL_OUT	O	Audio Left Rear Channel Output Pin	37
CT_OUT	O	Audio Center Output Channel Pin	39
AVCC	-	Analog Vcc	40
SUB_OUT	O	Subwoofer Chanel Output Pin	42
SR_OUT	O	Right Rear Channel Output Pin	44
FR_OUT	O	Right Front Channel Output Pin	46
DVCC	-	Digital Vcc	47
SCL	I	I^2C Control Bus Clock Input Pin	49
SDA	I	I^2C Control Bus Data Input Pin	51
DGND	-	Digital Ground	52
RCBAS2_FR	-	Right Channel Bass Control Pin 2 (note 4)	54
RCBAS1_FR	-	Right Channel Bass Control Pin 1(note 4)	56

Pin Name	I/O	Description	Pin No.
RCMID2_FR	-	Right Channel Middle Tone Channel Control Pin (note 5)	58
RCMID1_FR	-	Right Channel Middle Control Pin1 (note5)	60
CTRE_FR	-	Right Channel Treble Tone Control Pin (note 6)	62
SEL_FR	O	Right Channel Select Individual Output Pin	64
TPOUT_FR	O	Right Channel Tape Output Pin	66
IN_R1	I	Right Channel Input Pin 1	68
IN_R2	I	Right Channel Input Pin 2	70
IN_R3	I	Right Channel Input Pin 3	72
IN_R4	I	Right Channel Input Pin 4	74
IN_R5	I	Right Channel Input Pin 5	76
IN_R6	I	Right Channel Input Pin 6	78
IN_R7	I	Right Channel Input Pin 7	80
IN_R8	I	Right Channel Input Pin 8	82
IN_SR	I	Right Rear Channel Input Pin	84
IN_SUB	I	Subwoofer Channel Input Pin	86
VREF	-	Reference Voltage=1/2Vcc	88
AGND	-	Analog Ground	90
IN_CT	I	Center Channel Input Pin	91
IN_SL	I	Left Rear Channel Input Pin	93
IN_L8	I	Left Channel Input Pin 8	95
IN_L7	I	Left Channel Input Pin 7	97
IN_L6	I	Left Channel Input Pin 6	99

Note: 1.



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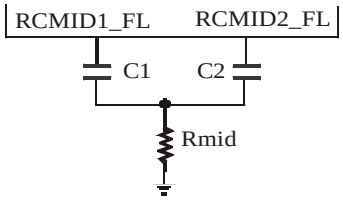

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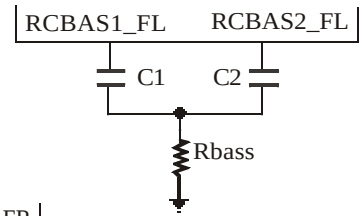

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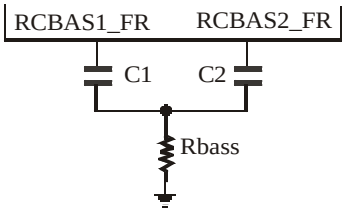

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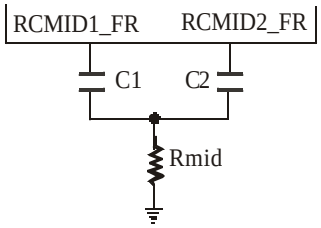

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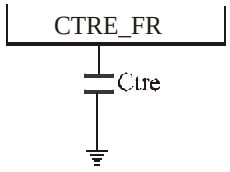

*7. All other pins not mentioned above are **NOT CONNECTED.***

APPLICATION CIRCUIT