

### GENERAL DESCRIPTION

The PT1322 is a highly efficiency, current mode control step-up DC/DC converter with an integrated 120mΩ  $R_{DS(ON)}$  N-channel MOSFET. The fixed 1MHz switching frequency and internal compensation circuitry reduce external component count and save the PCB space. The built-in internal soft-start circuitry minimizes the inrush current at start-up. The PT1322 is available in SOT23-6 package.

### FEATURES

- Input Voltage Operating Range: 2.7 V to 5.5 V
- 1MHz Constant Frequency Operation
- Minimum on time: 100ns typical
- Minimum off time: 100ns typical
- Maximum output voltage: 6V
- Low  $R_{DS(ON)}$ : 120mΩ
- SOT23-6 Package

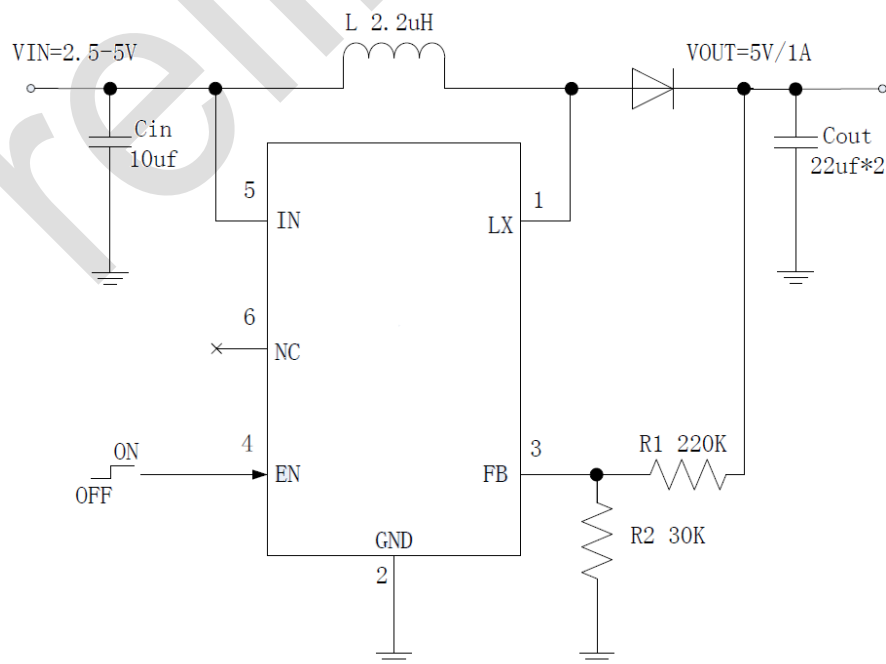
### APPLICATIONS

- Cell Phone and Smart Phone
- PDA, PMP, MP3
- Digital Still Cameras

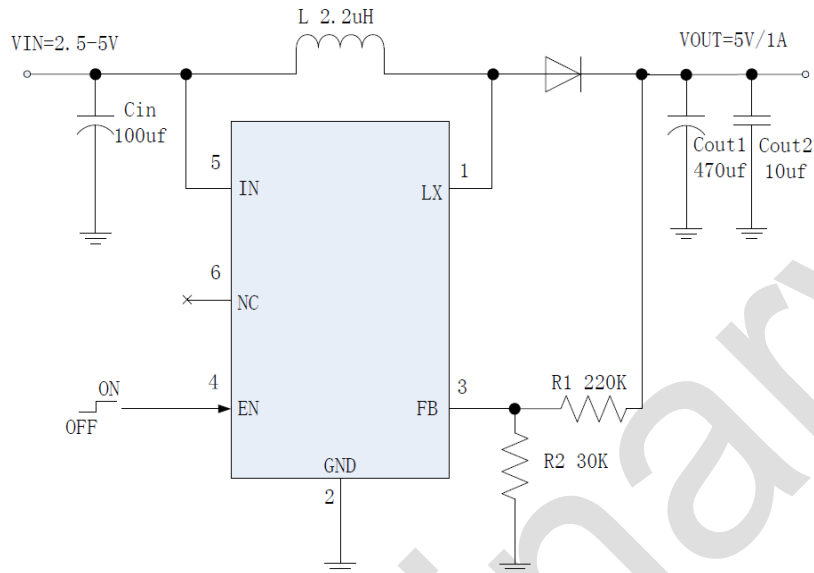
### ORDERING INFORMATION

PACKAGE	TEMPERATURE RANGE	ORDERING PART NUMBER	TRANSPORT MEDIA	MARKING
SOT23-6	-40 °C ~ +85 °C	PT1322E23F	Tape and Reel 3000 units	1322

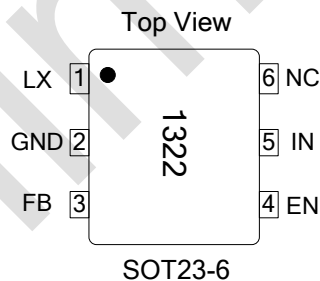
### TYPICAL APPLICATION CIRCUIT 1



### TYPICAL APPLICATION CIRCUIT 2



### PIN ASSIGNMENT



### PIN DESCRIPTIONS

PIN NUM	PIN NAME	DESCRIPTIONS
1	LX	Inductor node. Connect an inductor between IN pin and LX pin.
2	GND	Chip Ground.
3	FB	Feedback pin. Connect a resistor R1 between V <sub>OUT</sub> and FB, and a resistor R2 between FB and GND to program the output voltage: $V_{OUT} = 0.6V \cdot (R1/R2 + 1)$ .
4	EN	Chip Enable. Active High. Do not leave it floating.
5	IN	Power Input.
6	NC	No Connection.