PT1322

High Efficiency 1MHz, 2A Step-up DC/DC Converter

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

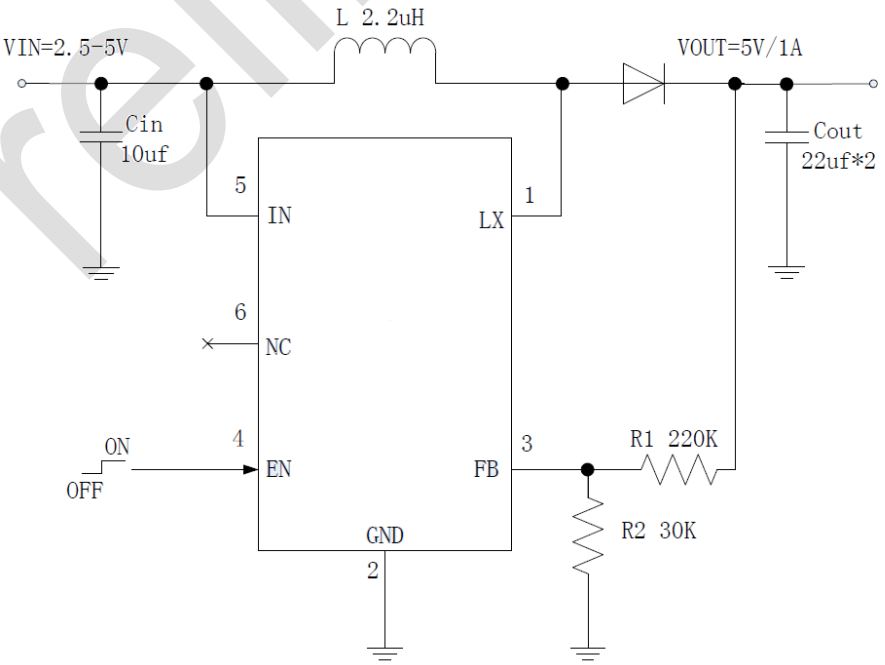
APPLICATIONS

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

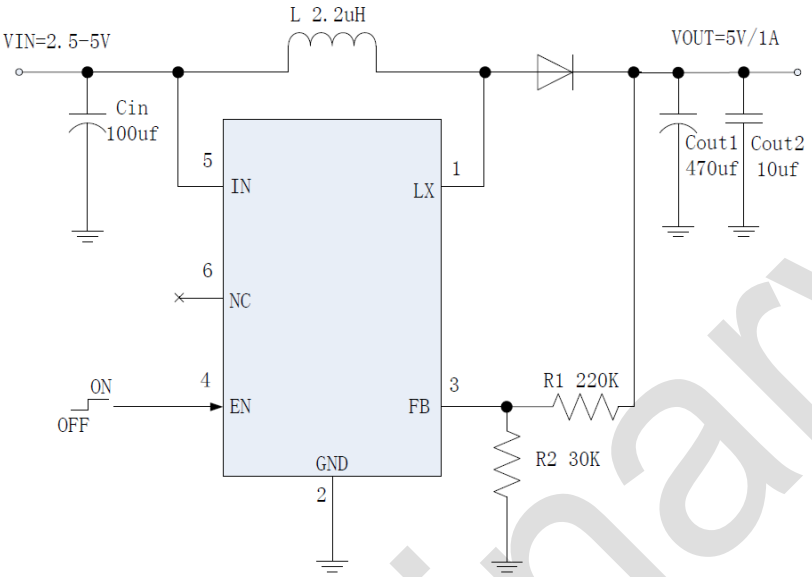
ORDERING INFORMATION

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

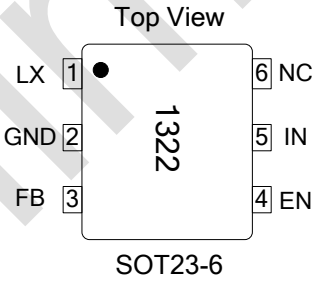
TYPICAL APPLICATION CIRCUIT 1



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_{OUT} and FB, and a resistor R2 between FB and GND to program the output voltage: V_{OUT} = 0.6V*(R1/R2+1).
4	EN	Chip Enable. Active High. Do not leave it floating.
5	IN	Power Input.
6	NC	No Connection.