

LCS4_0.1 series

Wide Input Non-Isolated & Regulated, Single Output



Switching Regulator

- (For (Boost + linear) Switching Regulator
- 🕂 Low Profile
- 🕀 0.65V to 3.6V
- + Vin> Vout Down Mode
- No Heat Sink Required
- Low Ripple and Noise

This Switching Regulator is a cutting-edge power solution designed for optimal performance and versatility. With its compact and low-profile design (measuring just 11.6mm x 6.0mm x 10.2mm), this regulator is perfect for space-constrained applications. It offers an impressive operating input range of 0.65V to 3.6V, ensuring compatibility with a wide range of power sources. Experience exceptional efficiency of up to 94%, delivering power with maximum energy conservation.



Common specifications Short circut protection: Continuous, auto-recovery Temperature rise at full load: 20°C max. Coolina: Free air convection -55°C~+125°C Operation temperature range: Storage temperature range: -55°C ~+125°C 300°C/10 sec max. Lead temperature: +100°C max. Operating case temperature: -40°C to +85°C ambient Temperature coefficient: 0.025%/°C typ. Storage humidity range: < 95% MTBF (using MIL-HDBK-217F): +25°C 59600x103 hours +90°C 5620x103 hours Packing guantities: 42pcs per Tube Non Conductive Black Plastic UL94-V0 Case material: Epoxy UL94-V0 Potting material: CTRL ON/OFF ON Open or 0.7V~Vin OFF 0V or <0.1V Weight: 1.3a

Note:

1. All specifications measured at TA = 25° C, humidity <75%, nominal input voltage and rated output load unless otherwise specified.

2. Only typical models listed. If you need other model, please confirm the power, input voltage and output voltage, and then phone us.

Output specifications					
Item	Test conditions	Min	Тур	Max	Units
Output voltage accuracy	Vin=1.2V to 3.6V at full load			±3	%
Output Current	0-100mA				
Line voltage regulation	Vin=1.2V to 3.6V at full load			0.5	%
Load regulation	10 to 100% full load at Vin=1.5V			1	%
Ripple + Noise	Vin=1.5VDC at full load			20	mVp-p
Input Voltage Range (absolute)	0.65-3.6VDC				
Switching frequency			1200		KHz
No load input current	Vin =1.5VDC at 0% load		100		uA
Thermal shutdown	Internal IC junction		150		°C
Max capacitance				220	μF

Example: LCS4_1.8-0.1

LC = Series; S4 = SIP4; 1.8 = 1.8Vout; 0.1 = 0.1A

Product Slection Guide

Part Number	Input Voltage Range [VDC]	Output Voltage [VDC]	Output Current [A]	Efficiency typ. [1.5VDC Nominal]	Max capacitive load
LCS4_1.8-0.1	0.65-3.6 (0.65-0.8)	1.8	0.1	97	220uF
LCS4_2.5-0.1	0.65-3.6 (0.65-1.0)	2.5	0.1	96	220uF
LCS4_3.3-0.1	0.65-3.6 (0.65-1.2)	3.3	0.1	94	220uF
LCS4_3.6-0.1	0.65-3.6 (0.65-1.2)	3.6	0.1	94	220uF

Typical characteristics



Standard application circuit



Mechanical dimension



PIN Connection				
PIN	Function			
1	+Vin			
2	GND			
3	+Vout			
4	CTRL			

Tube outline dimensions



L=520 ± 2 mm