

# CAT4240AEVB

## CAT4240 LED Driver Evaluation Board User's Manual



ON Semiconductor®

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### Introduction

This document describes the CAT4240AEVB evaluation board for the CAT4240 high efficiency step-up LED driver. The CAT4240 delivers an accurate constant current ideal for driving LEDs.

### EVAL BOARD USER'S MANUAL

### Schematic

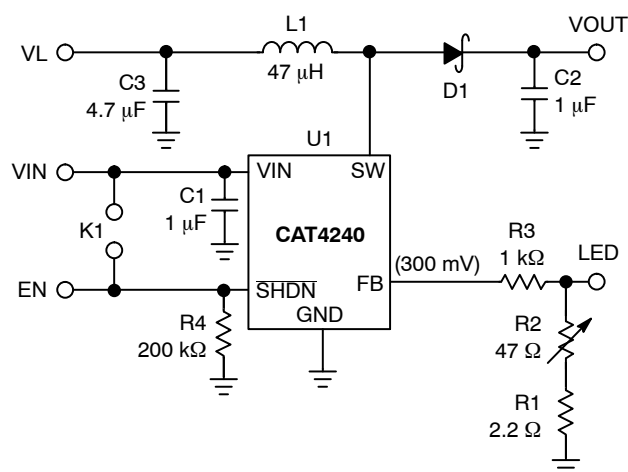


Figure 1. CAT4240AEVB Schematic




Figure 2. CAT4240AEVB Board

Table 1. BILL OF MATERIALS

Name	Manufacturer	Description	Part Number	Units
U1	ON Semiconductor, Catalyst Group	High Efficiency Boost LED Driver, SOT23-5	CAT4240	1
C1	Taiyo Yuden	Ceramic Capacitor 1.0 µF/6.3 V X5R, Size 0805	JMK212BJ105KK-T	1
C2	Taiyo Yuden	Ceramic Capacitor 1.0 µF/50 V X7R, Size 1210	UMK325BJ105KH-T	1
C3	Taiyo Yuden	Ceramic Capacitor 4.7 µF/25 V X5R, Size 0805	TMK212BJ475KG-T	1
D1	NXP	Schottky Diode 60 V/1 A, SOD323F	PMEG6010CEJ T/R	1
L1	NIC	Inductor 47 µH/0.8 A	NPIS63D470MTRF	1
R1	Panasonic	SMT Resistor 2.2 Ω/250 mW, Size 1206	ERJ-8GEYJ2R2V	1
R2	Vishay	Trim Pot 200 Ω/500 mW, Multi-Turn	T93YA470KT20	1
R3	Yageo	SMT Resistor 1 kΩ/100 mW, Size 0603	RC0603FR-071KL	1
R4	Yageo	SMT Resistor 200 kΩ/100 mW, Size 0603	RC0603FR-07200KL	1
K1	Tyco	2 Pin Header Connector 0.1" Pitch	640452-2	1

# CAT4240AEVB

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