

# REFLED004-EVK-001 Parts List



Part	Type	Value	Parts Number	Manufacture	Package size	Qty
U1	IC for LED Driver	-	BD83A14EFV-M	ROHM	HTSSOP-B24	1
M1	MOSFET P-Ch, Surface Mount	-40V/-27A	RQ3G270BJFRA	ROHM	HSMT8AG	1
M2	MOSFET N-Ch, Surface Mount	60V/12A	RQ3L120BKFRA	ROHM	HSMT8AG	1
D1	Diode Schottky Barrier, Surface Mount	60V/5A	RB088LAM-60TF	ROHM	SOD-128_PMDTM	1
RCSH1	Chip Resistor, Surface Mount	12mΩ	LTR18	ROHM	1632	1
RCSH3	Chip Resistor, Surface Mount	100Ω	MCR03	ROHM	1608	1
RCSL	Chip Resistor, Surface Mount	56mΩ	LTR10L	ROHM	1220	1
RCOMP1	Resistor, Surface Mount	200Ω	MCR03	ROHM	1608	1
RISET1	Resistor, Surface Mount	10kΩ	MCR03	ROHM	1608	1
RFAIL	Resistor, Surface Mount	100kΩ	MCR03	ROHM	1608	1
ROVP1	Resistor, Surface Mount	10kΩ	MCR03	ROHM	1608	1
ROVP2	Resistor, Surface Mount	370kΩ	MCR03	ROHM	1608	1
RRT1	Resistor, Surface Mount	13kΩ	MCR03	ROHM	1608	1
RRT2	Resistor, Surface Mount	12kΩ	MCR03	ROHM	1608	1
RISET2, ROVP3, RVCC, RG, RSYNCU, RPWM, JFAIL_REG, JPADIM_REG	-	Short	-	-	-	-
RCSH2, RADIM1, RADIM2, RADIM3, REND, RENU, RSYNCD, JFAIL_EXT, JPADIM_VCC1, JPADIM_VCC2	-	Open	-	-	-	-

# REFLED004-EVK-001 Parts List



Part	Type	Value	Parts Number	Manufacture	Package size	Qty
L1	Inductor, Surface Mount	22uH	SPM7054VT-220M-D	TDK	7.5mmx7.0mmx5.4mm	1
L2	Inductor, Surface Mount	4.7uH	CLF7045NIT-4R7N-D	TDK	7.4mmx7.0mmx4.5mm	1
XLED1, XLED2, XLED3, XLED4	Capacitor, Surface Mount	470pF/50V	GCM1555C1H471JA16	Murata	1005	4
COU1	Capacitor, Surface Mount	0.01uF/50V	GCM155R71H103KA55	Murata	1005	1
COU2, CIN5, COU6	Capacitor, Surface Mount	0.1uF/50V	GCM155R71H104KE02	Murata	1005	3
COU3, COU4, CIN2, CIN3, CIN6	Capacitor, Surface Mount	10uF/50V	GCM32EC71H106KA01	Murata	3225	5
COU5	Capacitor, Surface Mount	33uF/50V	HHXC500ARA330MF80G	Nippon Chemi-con	φ6.3 x 7.7	1
CREG	Capacitor, Surface Mount	2.2uF/16V	GCM21BR71C225KA49	Murata	2012	1
CVCC	Capacitor, Surface Mount	1uF/50V	GCM21BR71H105KA01	Murata	2012	1
CCOMP1	Capacitor, Surface Mount	0.47uF/10V	GCM155C71A474KE36	Murata	1005	1
COVP	Capacitor, Surface Mount	1000pF/50V	GCM155R71H102KA37	Murata	1005	1
CPLSET1	Capacitor, Surface Mount	1500pF/50V	GCM155R71H152KA37	Murata	1005	1
CIN4	Capacitor, Surface Mount	220uF/50V	UCD1H221MNL1GS	Nichicon	φ10 x 10	1
CCOMP2, CPLSET2, CREG2, CIN1, CCSH, CLDSW,	-	Open	-	-	-	-
CM	-	Open	-	-	-	-

## Notes

- 1) The information contained herein is subject to change without notice.
- 2) Before you use our Products, please contact our sales representative and verify the latest specifications :
- 3) Although ROHM is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors.  
Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Products beyond the rating specified by ROHM.
- 4) Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.
- 5) The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM or any other parties. ROHM shall have no responsibility whatsoever for any dispute arising out of the use of such technical information.
- 6) The Products specified in this document are not designed to be radiation tolerant.
- 7) For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.
- 8) Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.
- 9) ROHM shall have no responsibility for any damages or injury arising from non-compliance with the recommended usage conditions and specifications contained herein.
- 10) ROHM has used reasonable care to ensure the accuracy of the information contained in this document. However, ROHM does not warrants that such information is error-free, and ROHM shall have no responsibility for any damages arising from any inaccuracy or misprint of such information.
- 11) Please use the Products in accordance with any applicable environmental laws and regulations, such as the RoHS Directive. For more details, including RoHS compatibility, please contact a ROHM sales office. ROHM shall have no responsibility for any damages or losses resulting non-compliance with any applicable laws or regulations.
- 12) When providing our Products and technologies contained in this document to other countries, you must abide by the procedures and provisions stipulated in all applicable export laws and regulations, including without limitation the US Export Administration Regulations and the Foreign Exchange and Foreign Trade Act.
- 13) This document, in part or in whole, may not be reprinted or reproduced without prior consent of ROHM.



Thank you for your accessing to ROHM product informations.  
More detail product informations and catalogs are available, please contact us.

## ROHM Customer Support System

<http://www.rohm.com/contact/>