

REFPDT007-EVK-001A Parts List



Power PCB

No.	Device	Symbol	Parts Number	Values	Manufacture	Package Size
1	Film Condenser	C1,C8,C9,C10,C11,C12	BFC233920105	1μ 630V ±20%	VISHAY	D 26x10x19.5
2	Condenser Chemical	C2,C3,C4	ELX5451VSN561MA50S	560μ 450V ±20%	NIPPON CHEMI-CON	D D35x50
3	Film Condenser	C5,C18,C25	450MPH105J	1μ 450V ±5%	RUBYCON	D 18.5x15x23
4	Ceramic Condenser	C6,C14,C27	DE1E3KX222MA4BN01	2200p 250VAC ±20%	MURATA	D 9x7x12
5	Condenser Ceramic	C7,C20	GRM188R71E105KA12	1μ 25V ±10%	MURATA	S 1608
6	Condenser Ceramic	C13,C21	GRM188B11H102KA01	1000p 50V ±10%	MURATA	S 1608
7	Condenser Ceramic	C15,C16,C17,C24	GRM185B31E105MA12	1μ 25V ±20%	MURATA	S 1608
8	Ceramic Condenser	C19	C-S1608	TBD	MURATA	S 1608
9	Condenser Ceramic	C22	GRM188B31H104KA92	0.1μ 50V ±10%	MURATA	S 1608
10	Condenser Ceramic	C23	GRM188R11H104KA93	0.1μ 50V ±10%	MURATA	S 1608
11	Condenser Chemical	C26	UCS2W220MHD	22μ 450V ±20%	Nichicon	D D16x20
12	Connector	CN1	B3P-VH	10A, 3pin	JST	DIP
13	Test Point	CP1,CP2,CP3,CP4,CP5,CP6,CP7,CP8	HOT-2608B	Black	HIROSUGI	D 2.5x1.75
14	Diode	D1,D3,D5,D7,D10,D11	ES1A	50V,1A	Fairchild	SMD
15	Schottky Barrier Diode	D2,D4,D6,D8	SCS212AM	650V 12A	ROHM	D 10.16x4.7x19
16	Diode Switching	D9	1SS355	90V 225mA	ROHM	S 2.5x1.25x0.7
17	Diode	D12	EG01C	1000V, 0.5A	SANKEN	D
18	3Terminal Regulator	IC1	NJM78L05UA	12V 500mA	NJRC	S 4.5x2.5x1.5
19	Connector Socket	J1,J2,J3,J6	FHU-2x4SG	3A, 8pin,female	Useconn Electronics	D 10.16x5.08x8.5
20	Connector	J4	FHU-2x8SG	16P	Useconn Electronics	D 20.82x5x8.5
21	Connector	J5	FHU-1x4SG	Pin header 1x4P	Useconn Electronics	DIP
22	Connector	J7	FHU-2x9SG	18P	Useconn Electronics	D 23.32x5x8.5
23	Jumper	JP1	JP15-2		PAT	D 15x05
24	Connector	JP2,JP3	JP20-2			D 20
25	Transformer Power	L1	ADR-48-50-0R5YA	0.5mH, 50A	UENO	D D78x43
26	FET-2 Module	MJ1,MJ2	PC092-01-00	10pin	PAT	D 56x13x38
27	FET Module	MJ3	PC045-00-00	10pin	PAT	DIP
28	FET N-CH	Q1,Q2,Q3,Q4	SCT3030AL	650V70A	ROHM	D 16x5x25
29	FET N-CH	Q5,Q6	IPW65R019C7	700V70A	Infineon	D 16x5x25
30	Resistor	R1,R2,R4	RK73B2BTTD105J	1M 1/4W ±5%	KOA	S 3216
31	Resistor	R3,R5,R12,R14	RK73B2BTTD4R7J	4.7Ω 1/4W ±5%	KOA	S 3216
32	Resistor	R6,R8,R11,R13	RK73B2BTTD563J	56K 1/4W ±5%	KOA	S 3216
33	Resistor	R7,R15	RK73B1JTTD000J	0Ω 1/10W ±5%	KOA	S 1608
34	Resistor	R9,R17	RK73B1JTTD153J	15K 1/10W ±5%	KOA	S 1608
35	Resistor	R10,R16,R18,R19,R20,R21,R22	RK73B1JTTD103J	10K 1/10W ±5%	KOA	S 1608
36	Resistor	R23,R24	RK73B1JTTD470J	47Ω 1/10W ±5%	KOA	S 1608
37	Transformer	T1	VDCT	6mA, 67:1	Pulse Electronics	DIP
38	Check Pin	TP1,TP2,TP3,TP4,TP6,TP7,TP8,TP9,TP10	KRB-408	Screw, internal	HIROSUGI	D Φ8x8
39	Current Sensor	U1,U3	CQ-3303	±20A 60mV/A	AsahiKASEI	S 7.9x5.6x1.3
40	IC	U2	NJM2732M	Dual RtoR OP-amp	JRC	SMD
41	Isolation Sensor	U4	ACPL-C87AT	Isolation AMP	AVAGO	S 5.85x6.8x3.2

Important Notes on the Use of Reference Designs

- 1) The contents of this document are subject to change without notice for the purpose of improvement.
- 2) ROHM provides reference designs (including, but not limited to, circuit diagrams, layout data, parts lists, reference boards and their evaluation results, etc.) and all materials related to evaluation boards (hereinafter collectively referred to as "Reference Designs, etc.") to customers for the purpose of referencing them in the development of devices, equipment, software, etc. incorporating ROHM products (hereinafter collectively referred to as "Customer Products"). The design, verification, etc. required for the development of the Customer's Product shall be done at the customer's responsibility and expense. In no event shall the customer use the Reference Designs, etc. for any purpose other than the purpose mentioned above.
- 3) Reference Designs, etc. are provided on an "as is" basis. ROHM disclaims all warranties, express or implied, including, but not limited to, warranties of usefulness, functionality, accuracy, merchantability, and fitness for a particular purpose. In no event shall ROHM be liable for any damages (including, but not limited to, lost profits or other incidental, consequential, or punitive damages) arising out of, related to or in connection with the use of or application of the Reference Designs, etc. whether in contract or tort. For the avoidance of doubt, ROHM does not warrant that the Reference Designs, etc. will work with the Customer's Product.
- 4) When using Reference Designs, etc. be sure to request and verify the latest specifications (including the specifications of the products that compose the Reference Design, etc.) separately.
- 5) The customer shall be responsible for implementing safety measures such as derating, redundant design, fire prevention, backup, and fail-safe measures, etc., to prevent personal injury, fire damage, etc., caused by the Customer's Product developed with Reference Designs, etc. ROHM assumes no liability whatsoever for any use in excess of the ratings or in case of failure to observe the instructions for use.
- 6) The application circuit examples, constants, and other information provided in Reference Designs, etc. are intended to illustrate standard operation and usage. Therefore, when designing for mass production, please take into account various external conditions.
- 7) Reference Designs, etc. are intended to show typical operations and examples of application circuits, etc., and do not constitute a license, express or implied, to implement or use any intellectual property rights or any other rights of ROHM or any other company. ROHM shall not be liable for any disputes arising from, related to or in connection with the use of the Reference Designs, etc.
- 8) Please make sure to contact ROHM and obtain ROHM's consent before using the Reference Designs, etc. for the following Customer's Product that requires particularly high reliability. Transportation equipment (in-vehicle, ship, railroad, etc.), trunk line communication equipment, traffic signal equipment, disaster and security equipment, safety equipment, medical equipment, servers, solar cells, power transmission systems, etc.
- 9) Do not use Reference Designs, etc. for the following Customer's Product that requires extremely high reliability. Aerospace equipment, nuclear power control equipment, submarine relay equipment, etc.
- 10) Do not use Reference Designs, etc. for military use, such as development of weapons of mass destruction, or for any other military purpose.
- 11) ROHM does not assume any liability for any accidents or damages caused by non-compliance with the descriptions in this document.
- 12) The information contained in this document has been carefully prepared to ensure accuracy. However, ROHM shall not be liable for any loss or damage incurred by customers due to errors or misprints in this document.
- 13) Do not reproduce or duplicate any part of this document in any form or by any means without ROHM's permission.



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/>