

RPT62-EVK001 Parts list

Reference Designator	Type	Value	Description	Manufacturer Part Number	Manufacturer	Package, Size(mm)
U2	Buck DC/DC Converter			BD9P205EFV-C	ROHM	HTSSOP-B20
C20	Ceramic Capacitor	1 μ F	10%,X7R,50V	GCJ31MR71H105K	Murata	3216
C21	Ceramic Capacitor	0.1 μ F	10%,X7R,50V	GCM155R71H104K	Murata	1005
C22	Ceramic Capacitor	-	Not installed	-	-	1608
C23	Ceramic Capacitor	47 μ F	10%,X7R,6.3V	GCM32ER70J476K	Murata	3225
C24	Ceramic Capacitor	1 μ F	10%,X7R,50V	GCM21BR71C105K	Murata	2012
C25	Ceramic Capacitor	0.1 μ F	10%,X7R,50V	GCM155R71H104K	Murata	1005
C26	Ceramic Capacitor	-	Not installed	-	-	1005
R20	Jumper	0 Ω	0 Ω	MCR01MZPJ000	ROHM	1005
R21	Resistor	15k Ω	1 %,1/16W	MCR01MZPF1502	ROHM	1005
R22	Resistor	47k Ω	1 %,1/16W	MCR01MZPF4702	ROHM	1005
R23	Jumper	0 Ω	0 Ω	MCR01MZPJ000	ROHM	1005
R24	Resistor	10 k Ω	1 %,1/16W	MCR01MZPF1002	ROHM	1005
R25	Resistor	-	Not installed	-	-	1005
R26	Resistor	10 k Ω	1 %,1/16W	MCR01MZPF1002	ROHM	1005
R27	Resistor	10 k Ω	1 %,1/16W	MCR01MZPF1002	ROHM	1005
R28	Resistor	-	Not installed	-	-	1005
L21	Inductor	4.7 μ H	30%,0.023 Ω ,3.6A	CLF6045NIT-4R7N-D	TDK	W6.0 x H4.5 x L6.3
R201	Resistor	-	Not installed	-	-	1005
R202	Jumper	0 Ω	0 Ω	MCR01MZPJ000	ROHM	1005
D21	LED	Orange		SML-D12D1WT86	ROHM	SML-D12X8
R200	Resistor	470	1%, 1/10W	MCR03EZPF4700	ROHM	1608
MODE2	Header Pin 3x1			PH-1X3SG	USECONN	3x1
EN2	Header Pin 3x1			PH-1X3SG	USECONN	3x1
SSCG2	Header Pin 3x1			PH-1X3SG	USECONN	3x1

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Reference Designator	Type	Value	Description	Manufacturer Part Number	Manufacturer	Package, Size(mm)
U2	Buck DC/DC Converter			BD9P205EFV-C	ROHM	HTSSOP-B20
C20	Ceramic Capacitor	1 μ F	10%,X7R,50V	GCJ31MR71H105K	Murata	3216
C21	Ceramic Capacitor	0.1 μ F	10%,X7R,50V	GCM155R71H104K	Murata	1005
C22	Ceramic Capacitor	-	Not installed	-	-	1608
C23	Ceramic Capacitor	47 μ F	10%,X7R,6.3V	GCM32ER70J476K	Murata	3225
C24	Ceramic Capacitor	1 μ F	10%,X7R,50V	GCM21BR71C105K	Murata	2012
C25	Ceramic Capacitor	0.1 μ F	10%,X7R,50V	GCM155R71H104K	Murata	1005
C26	Ceramic Capacitor	-	Not installed	-	-	1005
R20	Jumper	0 Ω	0 Ω	MCR01MZPJ000	ROHM	1005
R21	Resistor	15k Ω	1 %,1/16W	MCR01MZPF1502	ROHM	1005
R22	Resistor	47k Ω	1 %,1/16W	MCR01MZPF4702	ROHM	1005
R23	Jumper	0 Ω	0 Ω	MCR01MZPJ000	ROHM	1005
R24	Resistor	10 k Ω	1 %,1/16W	MCR01MZPF1002	ROHM	1005
R25	Resistor	-	Not installed	-	-	1005
R26	Resistor	10 k Ω	1 %,1/16W	MCR01MZPF1002	ROHM	1005
R27	Resistor	10 k Ω	1 %,1/16W	MCR01MZPF1002	ROHM	1005
R28	Resistor	-	Not installed	-	-	1005
L21	Inductor	4.7 μ H	30%,0.023 Ω ,3.6A	CLF6045NIT-4R7N-D	TDK	W6.0 x H4.5 x L6.3
R201	Resistor	-	Not installed	-	-	1005
R202	Jumper	0 Ω	0 Ω	MCR01MZPJ000	ROHM	1005
D21	LED	Orange		SML-D12D1WT86	ROHM	SML-D12X8
R200	Resistor	470	1%, 1/10W	MCR03EZPF4700	ROHM	1608
MODE2	Header Pin 3x1			PH-1X3SG	USECONN	3x1
EN2	Header Pin 3x1			PH-1X3SG	USECONN	3x1
SSCG2	Header Pin 3x1			PH-1X3SG	USECONN	3x1

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Reference Designator	Type	Value	Description	Manufacturer Part Number	Manufacturer	Package, Size(mm)
U3	Buck DC/DC Converter			BD9S201NUX-C	ROHM	VSON008X2020
C30	Ceramic Capacitor	10μF	10%,X7R,10V	GCM21BR71A106K	Murata	2012
C31	Ceramic Capacitor	0.1μF	10%,X7R,50V	GCM155R71H104K	Murata	1005
C32	Ceramic Capacitor	-	Not installed	-	-	2012
C33	Ceramic Capacitor	10μF	10%,X7R,10V	GCM21BR71A106K	Murata	2012
C34	Ceramic Capacitor	0.01μF	10%,X7R,50V	GCM155R71H103K	Murata	1005
C35	Ceramic Capacitor	-	Not installed	-	-	1005
R31	Resistor	39kΩ	1 %,1/16W	MCR01MZPF3902	ROHM	1005
R32	Resistor	22kΩ	1 %,1/16W	MCR01MZPF2202	ROHM	1005
R33	Jumper	0Ω	0Ω	MCR01MZPJ000	ROHM	1005
R34	Resistor	100 kΩ	1 %,1/16W	MCR01MZPF1003	ROHM	1005
L31	Inductor	1μH	20%,0.042Ω,4.7A	TFM252012ALMA1R0MTAA	TDK	2520
RC1	Resistor	39kΩ	1 %,1/16W	MCR01MZPF3902	ROHM	1005
RC2	Resistor	22kΩ	1 %,1/16W	MCR01MZPF2202	ROHM	1005
MC125	Terminal			OSTTC022162	ON SHORE TECHNOLOGY	5.08Pitch
EN3	Header Pin 3x1			PH-1X3SG	USECONN	3x1
P31	Test Pin	Orange		SLC-33-G-O	Sunhayato	
P3G1	Test Pin	Black		SLC-33-G-K	Sunhayato	

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Reference Designator	Type	Value	Description	Manufacturer Part Number	Manufacturer	Package, Size(mm)
U4	LDO			BD00IA5MEFJ-M	ROHM	HTSOP-J8
C40	Ceramic Capacitor	-	Not installed	-	-	2012
C41	Ceramic Capacitor	1μF	10%,X7R,50V	GCM21BR71C105K	Murata	2012
C42	Ceramic Capacitor	1μF	10%,X7R,50V	GCM21BR71C105K	Murata	2012
C43	Ceramic Capacitor	-	Not installed	-	-	2012
R41	Resistor	15kΩ	1 %,1/16W	MCR01MZPF1502	ROHM	1005
R42	Resistor	47kΩ	1 %,1/16W	MCR01MZPF4702	ROHM	1005
R43	Jumper	0Ω	0Ω	MCR01MZPJ000	ROHM	1005
RD1	Resistor	15kΩ	1 %,1/16W	MCR01MZPF1502	ROHM	1005
RD2	Resistor	47kΩ	1 %,1/16W	MCR01MZPF4702	ROHM	1005
MC33	Terminal			OSTTC022162	ON SHORE TECHNOLOGY	5.08Pitch
EN4	Header Pin 3x1			PH-1X3SG	USECONN	3x1
P41	Test Pin	Orange		SLC-33-G-O	Sunhayato	
P4G1	Test Pin	Black		SLC-33-G-K	Sunhayato	

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Reference Designator	Type	Value	Description	Manufacturer Part Number	Manufacturer	Package, Size(mm)
U5	Buck DC/DC Converter			BD9S400MUF-C	ROHM	VQFN16FV3030
C50	Ceramic Capacitor	10μF	10%,X7R,10V	GCM21BR71A106K	Murata	2012
C51	Ceramic Capacitor	0.1μF	10%,X7R,50V	GCM155R71H104K	Murata	1005
C52	Ceramic Capacitor	22μF	10%,X7R,6.3V	GCM31CR70J226K	Murata	3216
C53	Ceramic Capacitor	22μF	10%,X7R,6.3V	GCM31CR70J226K	Murata	3216
C54	Ceramic Capacitor	0.01μF	10%,X7R,50V	GCM155R71H103K	Murata	1005
C55	Ceramic Capacitor	0.1μF	10%,X7R,50V	GCM155R71H104K	Murata	1005
C56	Ceramic Capacitor	-	Not installed	-	-	1005
C57	Ceramic Capacitor	4700pF	10%,X7R,50V	GCM155R71H472K	Murata	1005
R51	Resistor	51kΩ	1 %,1/16W	MCR01MZPF5102	ROHM	1005
R52	Resistor	13kΩ	1 %,1/16W	MCR01MZPF1302	ROHM	1005
R53	Jumper	0Ω	0Ω	MCR01MZPJ000	ROHM	1005
R54	Resistor	100 kΩ	1 %,1/16W	MCR01MZPF1003	ROHM	1005
R55	Resistor	8.2kΩ	1 %,1/16W	MCR01MZPF8201	ROHM	1005
L51	Inductor	1μH	20%,0.037Ω,5.1A	TFM322512ALMA1R0MTAA	TDK	3225
RF1	Resistor	51kΩ	1 %,1/16W	MCR01MZPF5102	ROHM	1005
RF2	Resistor	13kΩ	1 %,1/16W	MCR01MZPF1302	ROHM	1005
SOC1	Terminal			OSTTC022162	ON SHORE TECHNOLOGY	5.08Pitch
MODE5	Header Pin 3x1			PH-1X3SG	USECONN	3x1
EN5	Header Pin 3x1			PH-1X3SG	USECONN	3x1
P51	Test Pin	Orange		SLC-33-G-O	Sunhayato	
P5G1	Test Pin	Black		SLC-33-G-K	Sunhayato	

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Reference Designator	Type	Value	Description	Manufacturer Part Number	Manufacturer	Package, Size(mm)
U6	Buck DC/DC Converter			BD9S300MUF-C	ROHM	VQFN16FV3030
C60	Ceramic Capacitor	10μF	10%,X7R,10V	GCM21BR71A106K	Murata	2012
C61	Ceramic Capacitor	0.1μF	10%,X7R,50V	GCM155R71H104K	Murata	1005
C62	Ceramic Capacitor	22μF	10%,X7R,6.3V	GCM31CR70J226K	Murata	3216
C63	Ceramic Capacitor	22μF	10%,X7R,6.3V	GCM31CR70J226K	Murata	3216
C64	Ceramic Capacitor	0.01μF	10%,X7R,50V	GCM155R71H103K	Murata	1005
C65	Ceramic Capacitor	0.1μF	10%,X7R,50V	GCM155R71H104K	Murata	1005
C66	Ceramic Capacitor	-	Not installed	-	-	1005
C67	Ceramic Capacitor	4700pF	10%,X7R,50V	GCM155R71H472K	Murata	1005
R61	Resistor	27kΩ	1 %,1/16W	MCR01MZPF2702	ROHM	1005
R62	Resistor	24kΩ	1 %,1/16W	MCR01MZPF2402	ROHM	1005
R63	Jumper	0Ω	0Ω	MCR01MZPJ000	ROHM	1005
R64	Resistor	100 kΩ	1 %,1/16W	MCR01MZPF1003	ROHM	1005
R65	Resistor	8.2kΩ	1 %,1/16W	MCR01MZPF8201	ROHM	1005
L61	Inductor	1μH	20%,0.042Ω,4.7A	TFM252012ALMA1R0MTAA	TDK	2520
RG1	Resistor	27kΩ	1 %,1/16W	MCR01MZPF2702	ROHM	1005
RG2	Resistor	24kΩ	1 %,1/16W	MCR01MZPF2402	ROHM	1005
SOC15	Terminal			OSTTC022162	ON SHORE TECHNOLOGY	5.08Pitch
MODE6	Header Pin 3x1			PH-1X3SG	USECONN	3x1
EN6	Header Pin 3x1			PH-1X3SG	USECONN	3x1
P61	Test Pin	Orange		SLC-33-G-O	Sunhayato	
P6G1	Test Pin	Black		SLC-33-G-K	Sunhayato	

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Reference Designator	Type	Value	Description	Manufacturer Part Number	Manufacturer	Package, Size(mm)
U7	Buck DC/DC Converter			BD9S201NUX-C	ROHM	VSON008X2020
C70	Ceramic Capacitor	10μF	10%,X7R,10V	GCM21BR71A106K	Murata	2012
C71	Ceramic Capacitor	0.1μF	10%,X7R,50V	GCM155R71H104K	Murata	1005
C72	Ceramic Capacitor	-	Not installed	-	-	2012
C73	Ceramic Capacitor	10μF	10%,X7R,10V	GCM21BR71A106K	Murata	2012
C74	Ceramic Capacitor	0.01μF	10%,X7R,50V	GCM155R71H103K	Murata	1005
C76	Ceramic Capacitor	-	Not installed	-	-	1005
R71	Resistor	24kΩ	1 %,1/16W	MCR01MZPF2402	ROHM	1005
R72	Resistor	30kΩ	1 %,1/16W	MCR01MZPF3002	ROHM	1005
R73	Jumper	0Ω	0Ω	MCR01MZPJ000	ROHM	1005
R74	Resistor	100 kΩ	1 %,1/16W	MCR01MZPF1003	ROHM	1005
L71	Inductor	1μH	20%,0.042Ω,4.7A	TFM252012ALMA1R0MTAA	TDK	2520
RH1	Resistor	24kΩ	1 %,1/16W	MCR01MZPF2402	ROHM	1005
RH2	Resistor	30kΩ	1 %,1/16W	MCR01MZPF3002	ROHM	1005
SOC18	Terminal			OSTTC022162	ON SHORE TECHNOLOGY	5.08Pitch
EN7	Header Pin 3x1			PH-1X3SG	USECONN	3x1
P71	Test Pin	Orange		SLC-33-G-O	Sunhayato	
P7G1	Test Pin	Black		SLC-33-G-K	Sunhayato	

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Reference Designator	Type	Value	Description	Manufacturer Part Number	Manufacturer	Package, Size(mm)
U8	Supervisor IC			BD39042MUF-C	ROHM	VQFN16FV3030
D80	LED	Red		SML-D12U1WT86	ROHM	SML-D12X8
D81	LED	Red		SML-D12U1WT86	ROHM	SML-D12X8
D82	LED	Red		SML-D12U1WT86	ROHM	SML-D12X8
D83	LED	Red		SML-D12U1WT86	ROHM	SML-D12X8
D84	LED	-	Not installed	-	-	SML-D12X8
C81	Ceramic Capacitor	0.22μF	10%,X7R,16V	GCM155R71C224K	Murata	1005
CA0	Ceramic Capacitor	10μF	10%,X7R,10V	GCM21BR71A106K	Murata	2012
CA1	Ceramic Capacitor	-	Not installed	-	-	3216
R80	Resistor	1 kΩ	1 %,1/16W	MCR01MZPF1001	ROHM	1005
R81	Resistor	1 kΩ	1 %,1/16W	MCR01MZPF1001	ROHM	1005
R82	Resistor	1 kΩ	1 %,1/16W	MCR01MZPF1001	ROHM	1005
R83	Resistor	1 kΩ	1 %,1/16W	MCR01MZPF1001	ROHM	1005
R84	Resistor	-	Not installed	-	-	1005
R85	Resistor	10 kΩ	1 %,1/16W	MCR01MZPF1002	ROHM	1005
RA1	Resistor	8.2kΩ	1 %,1/16W	MCR01MZPF8201	ROHM	1005
RA2	Resistor	43kΩ	1 %,1/16W	MCR01MZPF4302	ROHM	1005
RB1	Resistor	8.2kΩ	1 %,1/16W	MCR01MZPF8201	ROHM	1005
RB2	Resistor	43kΩ	1 %,1/16W	MCR01MZPF4302	ROHM	1005
RK1	Resistor	10 kΩ	1 %,1/16W	MCR01MZPF1002	ROHM	1005
RK2	Resistor	-	Not installed	-	-	1005
CAN5	Terminal			OSTTC022162	ON SHORE TECHNOLOGY	5.08Pitch
BM1	Header Pin 8x2			PS-16PE-D4T1-PN1	JAE	8x2
P1	Test Pin	Orange		SLC-33-G-O	Sunhayato	

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Reference Designator	Type	Value	Description	Manufacturer Part Number	Manufacturer	Package, Size(mm)
U9	Supervisor IC			BD39042MUF-C	ROHM	VQFN16FV3030
D90	LED	Red		SML-D12U1WT86	ROHM	SML-D12X8
D91	LED	Red		SML-D12U1WT86	ROHM	SML-D12X8
D92	LED	Red		SML-D12U1WT86	ROHM	SML-D12X8
D93	LED	Red		SML-D12U1WT86	ROHM	SML-D12X8
D94	LED	Red		SML-D12U1WT86	ROHM	SML-D12X8
C91	Ceramic Capacitor	0.22μF	10%,X7R,16V	GCM155R71C224K	Murata	1005
CE0	Ceramic Capacitor	10μF	10%,X7R,10V	GCM21BR71A106K	Murata	2012
CE1	Ceramic Capacitor	-	Not installed	-	-	3216
R90	Resistor	1 kΩ	1 %,1/16W	MCR01MZPF1001	ROHM	1005
R91	Resistor	1 kΩ	1 %,1/16W	MCR01MZPF1001	ROHM	1005
R92	Resistor	1 kΩ	1 %,1/16W	MCR01MZPF1001	ROHM	1005
R93	Resistor	1 kΩ	1 %,1/16W	MCR01MZPF1001	ROHM	1005
R94	Resistor	1 kΩ	1 %,1/16W	MCR01MZPF1001	ROHM	1005
R96	Resistor	10 kΩ	1 %,1/16W	MCR01MZPF1002	ROHM	1005
RE1	Resistor	15kΩ	1 %,1/16W	MCR01MZPF1502	ROHM	1005
RE2	Resistor	47kΩ	1 %,1/16W	MCR01MZPF4702	ROHM	1005
RI1	Resistor	15kΩ	1 %,1/16W	MCR01MZPF1502	ROHM	1005
RI2	Resistor	47kΩ	1 %,1/16W	MCR01MZPF4702	ROHM	1005
P33	-	-	Not installed	-	-	-
SOC33	Terminal			OSTTC022162	ON SHORE TECHNOLOGY	5.08Pitch
BM2	Header Pin 8x2			PS-16PE-D4T1-PN1	JAE	8x2
P21	Test Pin	Orange		SLC-33-G-O	Sunhayato	
PL1	Test Pin	Orange		SLC-33-G-O	Sunhayato	
PL1	Test Pin	Black		SLC-33-G-K	Sunhayato	
P2G1	Test Pin	Black		SLC-33-G-K	Sunhayato	
PLG1	Test Pin	Black		SLC-33-G-K	Sunhayato	

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Reference Designator	Type	Value	Description	Manufacturer Part Number	Manufacturer	Package, Size(mm)
QL1	Pch MOS Transistor			RV4C020ZPHZG	ROHM	DFN1616-6W
QL2	Nch MOS Transistor			RJU003N03FRA	ROHM	UMT3
CL0	Ceramic Capacitor	1 μ F	10%,X7R,16V	GCM21BR71C105K	Murata	2012
CL1	Ceramic Capacitor	1 μ F	10%,X7R,16V	GCM21BR71C105K	Murata	2012
CL2	Ceramic Capacitor	1 μ F	10%,X7R,16V	GCM21BR71C105K	Murata	2012
RL1	Resistor	100 k Ω	1 %,1/16W	MCR01MZPF1003	ROHM	1005
RL2	Resistor	1 k Ω	1 %,1/16W	MCR01MZPF1001	ROHM	1005
RL3	Resistor	1 k Ω	1 %,1/16W	MCR01MZPF1001	ROHM	1005
LS1	Header Pin 3x1			PH-1X3SG	USECONN	3x1

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Reference Designator	Type	Value	Description	Manufacturer Part Number	Manufacturer	Package, Size(mm)
D1	Diode			RBR3LAM60B	ROHM	SOD-128
CBLK1	Aluminum Electrolytic Capacitor	220μF	20%,35V	UWD1V221MCL1GS	NICHICON	10x10
CBLK2	Aluminum Electrolytic Capacitor	220μF	20%,35V	UWD1V221MCL1GS	NICHICON	10x10
CF0	Ceramic Capacitor	-	Not installed	-	-	1005
CF1	Ceramic Capacitor	4.7μF	10%,X7R,50V	GCM32ER71H475K	Murata	3225
CF2	Ceramic Capacitor	4.7μF	10%,X7R,50V	GCM32ER71H475K	Murata	3225
LF1	Inductor	4.7μH	30%,0.023Ω,3.6A	CLF6045NIT-4R7N-D	TDK	W6.0 x H4.5 x L6.3
LF2	Inductor	4.7μH	30%,0.023Ω,3.6A	CLF6045NIT-4R7N-D	TDK	W6.0 x H4.5 x L6.3
CMF1	Filter	-	Not installed	-	-	DLW5BTM102TQ2
BAT1	Terminal			OSTTC022162	ON SHORE TECHNOLOGY	5.08Pitch