

Designator	Value	Package	Supplier part number	Qty.	Manufacturer part number
U1	5-V-28-V input, 6-V Gate Drive, 0-145 °C, up to 10 A output	VQFN 24	BQ24616RGER	1	BQ24616RGER
Q3-4	N-channel, 9.8 mΩ, 60 V	SON5x6	-	2	csd18534q5a
Q1-3	P Channel 30V, 7.2 mΩ, 35A (Tc), 52W(Tc)	PowerPAK 1212-8	C142572	3	SI7101DN-T1-GE3
D1	40V 380mA 1V	SOD523	C139441	1	ZLLS350TA
D2,D3	blue, 14.5~28mcd@5mA	0805	C72035	4	17-21/BHC-XL2M2TY/3T
D4	Green-yellow, 573nm, 32mcd	0805	C142303	1	17-21SYGC/S530-E3/TR8
L1	6.8uH ±20% 4.5A	SMD,7.3 x 6.6 x3mm	C237912	1	MCS0630-6R8MN2
R1, R2	0.01 ±1% 3/4W ±50 ppm/°C	0805	C201254	2	STE0805MW75R010F
R4	5.1 ±1%	1206	-	2	-
R5, R12	100k, 5%	0603	C269682	2	RMC0603100K5%N
R6, R11	1K ±1% 1/10W ±100ppm/°C	0603	C203217	2	CR0603-FX-1001ELF
R7*	10 ±1% 1/10W ±100ppm/°C	0603			
R7	10 ±1%	0603	-	1	-
R10	10 ±1%	1206	-	1	-
R13	100 ±1%	0603	-	1	-
R9, R21(3A), R19(2A)	102K ±0.5% 1/10W ±100ppm/°C	0603	C407638	3	0603WAD1023T5E
R8	510K ±1% 1/10W ±100ppm/°C	0603	C103688	1	RTT035103FTP
R14	1.78K ±1% 1/10W ±100ppm/°C	0603	C227661	1	AC0603FR-071K78L
R15	4.99K ±1% 1/10W ±100ppm/°C	0603	C103676	1	RTT034991FTP
R21 (5A), R19(3A)	62k, 0.1%, 1/10W	0603	C136961	2	RT0603BRD0762KL
R24 (5A)	27K ±1% 1/10W ±100ppm/°C	0603	C114614	1	RC0603FR-0727KL
R24 (3A), R22 (2A), R22(3A), R22(2A), R22(3A)	13.7K ±1% 1/10W ±100ppm/°C	0603	C227582	5	AC0603FR-0713K7L
R20 (0.1, 0.2), R19 (1A)	51K ±1%, 1/10W	0603	-	2	-
R20 (0.3)	100k ±1%, 1/10W	0603	-	1	-
R23 (0.1)	1.6K ±1% 1/10W ±100ppm/°C	0603	C165489	1	RC0603FR-071K6L
R18, R23 (0.2), R22(1)	3k3 ±1%, 1/10W	0603	-	3	-
R16, R17, R23 (0.3)	10k ±1%, 1/10W	0603	-	3	-
C1-C4	10uF ±10% 25V X7R	1206	C14860	4	CL31B106KAHNNNE
C5	2.2uF ±10% 50V X5R	0805	C377773	1	CL21A225KBQNNNE
C10, C13, C15	1uF ±10% 25V X7R	0603	C29936	3	CL10B105KA8NNNC
C6, C7, C11, C12, C14, C16-C20	100nF ±10% 25V X7R	0603	C1590	10	CL10B104KA8NNNC
C8, C9	100nF ±10% 50V X7R	0603	C307348	2	CL10B104KB8WPNC
C21	22pF ±5% 50V C0G	0603	C1653	1	CL10C220JB8NNNC
CTTC	33nF	0603	-	1	-
CTTC1	3.3nF	0603	-	1	-
J1	24VDC, 8A	2.50mm ID, 5.50mm OD	CP-063BH-ND	1	PJ-063BH
J2	2 pins	pitch 2mm	C225207	1	A2001WR-2P
J3,J4	2 pins, (17.5A, 250V)/pin	pitch 5.08mm	-	2	DG301-5.0-02P-1Y-00AH
adapter 2.5*5.5 90w	15V, 6A, 90W	2.5*5.5 mm	-	1	-