

Designator	Value	Package	Supplier part #	Qty.	Manufacturer P/N
U1	-40°C to +105°C, 5.5 to 30 V module voltage	HTQFP 48 pin	296- BQ79606APHPTQ 1CT-ND	1	BQ79606APHPTQ1
X1-X4	Vbr = 27 V	SOT-23-3)	C246766	4	ESDCAN24-2BLY
Q1-Q6	Vgs(th) < 1 V	SOT-23-3	C10488	6	Si2302CDS-T1-GE3
D1-D12	6.2V±2%, 200mW, 3uA@4V,	SOD-323	C241957	12	BZX384B6V2-E3-08
D13	Green	0805	-	1	
J1-J4	4 pins	Pitch 2mm	C157926	4	S4B-PH-K-S(LF)(SN)
J5-J8	2 pins	Pitch 2mm	C173752	4	A2001WR-2P
J5-J8    alternative	2 pins	Pitch 2mm	C173752	4	B2B-PH-K-S(LF)(SN)
J9, J10	3 pins	Pitch 2mm	C131337	2	S3B-PH-K-S(LF)(SN)
J11	6 pins	Pitch 2mm	C157920	1	S6B-PH-K-S(LF)(SN)
J12	6 pins molex	Pitch 2.54 mm	C239373	1	A2543WR-6P-2
JP1,JP4	2 rows 7 columns	Pitch 2.54 mm	C71397	2	C71397
JP2	1 rows 6 columns	Pitch 2.54 mm	C37208	1	C37208
JP3	1 rows 7 columns	Pitch 2.54 mm	C225482	1	A2541WV-7P
JP5	2 rows 3 columns	Pitch 2.54 mm		1	
L1-L4	100uH@100kHz 150mA	1812	C88056	4	ACT45B-101-2P-TL003
C1, C2	0.33 uF, 50 V, +/- 10%, X7R	1206	C307572	2	CL31B334KBFNNNE
C3,C4,C6,C7,C9-C11	2.2 uF, 16 V, +/- 10%, X7S	0603	C237436	7	GRM188C71C225KE11D
C58,C59	1.0 nF, 50 V, +/- 1%, NP0(C0G)	0603	C384777	2	0603N102F500CT
C5, C8, C35, C36, C39, C49, C52, C53, C57	51 pF, 50 V, +/- 5%, C0G/NP0	0603	C123578	9	0603N510J500LT
C12, C14-C16, C18, C19, C60- C70, C71, C74	1 uF, 16 V, +/-10%, X7R	0603	C29936	19	CL10B105KA8NNNC
C29, C30, C44, C45	1 uF, 16 V, +/- 10% X7R	0805	C24123	4	CL21B105KOFNNNE
C20, C21, C22, C23, C24, C25	0.1 uF, 50 V, +/- 10%, X7R	1206	C24497	6	CL31B104KBCNNNC
C26, C27, C31, C33, C40, C41, C43, C47, C48, C55	0.47 uF, 16 V, +/- 10%, X7R	0603	C105526	10	CL10B474KO8NNNC
C28, C32, C42, C46	0.33 uF, 50 V, +/- 10%, X7R	0603	C296028	4	0603B334K500CT
C13, C34, C37, C38, C50, C51, C54, C56	2.2 nF, 2000V, +/- 10%, X7R,	1206	C303955	8	1206B222K202CT
C72, C73, C75, C76	1 uF, 16 V, +/-10%, X7R	0603		0	
R1	470hms ±1% 1/4W	1206	C104819	1	RTT06470JTP
R2, R74	100Ohms ±5% 1/4W	0603	C253328	2	ESR03EZPJ101
R49, R52, R54, R56, R58, R60, R100	100Ohms, ±1%, 0.1 W	0603		7	
RB1, RB2, RB3, RB4, RB5, RB6	100Ohms ±5% 2W	2512	C149860	6	CRH2512J10R0E04Z
R3, R9, R14, R39, R45, R46, R47, R63, R66, R68, R69, R70, R71, R72, R73	10.0 k, 1%, 0.1 W	0603		15	

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R17, R18, R19, R22, R44, R48, R51, R53, R55, R57, R59, R62, R65	<b>1K</b> $\pm 1\%$ 1/10W $\pm 100\text{ppm}/^\circ\text{C}$	0603	C203217	13	CR0603-FX-1001ELF
R6, R20, R50	<b>100 k</b> , 5%, 0.1 W	0603		3	
R23, R24, R25, R26, R27, R28, R29	<b>47 Ohms</b> $\pm 1\%$ 1/10W $\pm 100\text{ppm}/^\circ\text{C}$	0603	C114623	7	RC0603FR-0747RL
R7, R8, R12, R13, R37, R38, R42, R43	<b>43.0 Ohms</b> , 1%, 0.1 W	0603	C23173	8	0603WAF430JT5E
R4, R5, R10, R11, R15, R16, R40, R41	<b>10 Ohms</b> , 5%, 0.1 W,	0603		8	
R30, R31, R32, R33, R34, R35, R36	<b>10.0 Ohms</b> , 1%, 0.5 W	1210	C104962	7	RTT1210R0FTP
R21, R61, R64, R67		0603			
BAT0-BAT6, GND	-	thru hole	C238122	8	5001
-	supl. v. <b>1.5 V ~ 5.5 V</b>	TO-92-3	C75856	2	LMT85LP
-	<b>R=10KOhms <math>\pm 1\%</math></b> , B=3988K $\pm 1\%$	free hang. 350mm	C209895	0	B57861S0103A039
-	<b>1/20W, R=10KOhms <math>\pm 1\%</math></b> , B=3950K $\pm 1\%$	P=1.7mm	C13879	2	MF52A103F3950(A1)
-	<b>1/20W, R=100KOhms <math>\pm 1\%</math></b> , B=3950K $\pm 1\%$	P=1.7mm	C13424	2	MF52A104F3950 (P209-15A)
U2	<b>Icc = 0.9 mA, 3 to 5 V</b>	SOIC (16)	ISO7342CQDWRQ1	1	ISO7342-Q1
SW1	<b>24V DC, 25mA</b>	P= 2.54	4387	1	DS-05
R75-R80	<b>1.0 k</b> , 1%, 0.1 W	0603	-	6	-
J15	<b>6 pins</b>	Pitch 2mm	C157920	1	S6B-PH-K-S(LF)(SN)
JP6	<b>1 rows 4 columns</b>	Pitch 2.54 mm	C37208	1	C37208
JP7, JP8	<b>1 rows 2 columns</b>	Pitch 2.54 mm		2	
JP9, JP10	<b>1 rows 2 columns</b>	Pitch 2.54 mm		2	