















Comment	Description 100µF 50V Aluminum	Designator	Footprint	LibRef	Quantity
CAP ALUM 100UF 20%	Capacitors Radial, Can 74 mOhm @ 100kHz			CAP ALUM 100UF 20%	
50V RADIAL CAP CER 22UF 16V	3000 Hrs @ 105°C 22µF ±20% 16V	C1	CAP ALUM 100UF 50V	50V RADIAL CAP CER 22UF 16V	1
±20% X5R 1210	Ceramic Capacitor X5R 1210 (3225 Metric) 0.10µF ±10% 50V	C2, C3 C4, C5, C8, C9, C14, C16, C18, C19, C20,	CAP, 1210	±20% X5R 1210	
CAP CER 0.1UF 50V 10% X7R 0603	Ceramic Capacitor X7R 0603 (1608 Metric) 1uF ±10% 50V Ceramic	C16, C18, C19, C20, C_DNP1, C_DNP2	CAP, 0603	CAP CER 0.1UF 50V 10% X7R 0603	11
CAP CER 1UF 50V 10% X7R 0603	Capacitor X7R 0603 (1608 Metric)	C6, C7	CAP, 0603	CAP CER 1UF 50V 10% X7R 0603	1
CAP CER 10nF 50V 5% X7R 0603	10000pF ±5% 50V Ceramic Capacitor U2J 0603 (1608 Metric)	C10, C11, C12, C13, C15, C17, C21, C22, C23, C24	CAP, 0603	CAP CER 10nF 50V 5% X7R 0603	10
DIODE TVS 15VWM 24.4VC DO-214AA	TVS DIODE 15VWM			DIODE TVS 15VWM 24.4VC DO-214AA	
(SMB)	24.4VC SMB Fuse Block 30A 500V 1 Circuit Blade PCB	D1, D2 F1, F2	DO-214AA Diode FUSE ATO/ATC FUSE HOLDER	(SMB) FUSE ATO FUSE HOLDER	
	2 Positions Header Connector Through		CONN 2POS JUMPER	CONN 2POS JUMPER	
JUMPER LED GREEN CLEAR 2V	Hole Gold Green 572nm LED Indication - Discrete 2V	JP1, JP2 LED1, LED3, LED6, LED9.	0.1*	0.1" LED GREEN CLEAR 2V	
0603	0603 (1608 Metric) Yellow 590nm LED	LED10, LED11 LED2, LED4, LED5, LED7,	LED_0603	0603	
LED YELLOW CLEAR 2.1V 0603	Indication - Discrete 2V 0603 (1608 Metric) 50 Position Connector	LED8, LED12, LED13, LED14	LED_0603	LED YELLOW CLEAR 2.1V 0603	8
CONN 50POS Bergstak	Plug, Outer Shroud Contacts Surface		CONN, Bergstak 50 Pos	CONN 50POS Bergstak	
Plug 0.02"	Mount Gold 6 Positions Header Connector 0.138"	P1	Plug	Plug 0.02"	1
CONN 6POS ULTRA-FIT 0.138"	(3.50mm) Through Hole Tin	P2, P4	CONN, 6POS ULTRA-FIT	CONN 6POS ULTRA-FIT 0.138"	
	3 Positions Header Connector 0.138" (3.50mm) Through Hole			CONN 3POS ULTRA-FIT	
3 POS VERT ULTRA-FIT	Tin 6 Positions Header	P3	CONN, 3POS ULTRA-FIT	0.138"	1
CONN 6POS ULTRA-FIT NATURAL COLOR 0.138"	Connector 0.138" (3.50mm) Through Hole Tin	P5, P6	CONN, 6POS ULTRA-FIT NATURAL COLOR	CONN 6POS ULTRA-FIT NATURAL COLOR 0.138"	
	2 Positions Header, Shrouded Connector				,
CONN 2POS ULTRA-FIT 0.138*	0.138" (3.50mm) Through Hole Gold 2 Positions Header.	P7, P8, P12	CONN, 2POS ULTRA-FIT	CONN 2POS ULTRA-FIT 0.138"	3
CONN 2POS ULTRA-FIT	Shrouded Connector 0.138" (3.50mm)		CONN, 2POS ULTRA-FIT	CONN 2POS ULTRA-FIT	
NATURAL COLOR 0.138"	Through Hole Mosfet Array 2 P- Channel (Dual) 40V 8A	P9, P10, P11	NATURAL COLOR	NATURAL COLOR 0.138"	3
MOSFET DUAL P-CH 40V 8A 3.2W 8-SOIC	3.2W Surface Mount 8- SO	Q1, Q2	SOIC8	MOSFET DUAL P-CH 40V 8A 3.2W 8-SOIC	1
MOSFET N-CH 30V 8.7A 2.1W 6-PQFN (2x2)		Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15	MOSFET N-CH 30V 12A 2mmx2mm PQFN	MOSFET N-CH 30V 8.7A 2.1W 6-PQFN (2x2)	11
V - 1 G: N (ZAZ)	0.003 Ohm ±1% 1.5W Chip Resistor 2010	,410	- Constitution of the	W G : G : N (2A2)	13
RES 0.003 OHM 1% 1.5W 2010	(5025 Metric) Current Sense, Moisture Resistant Metal Foil	R1	RES 2010	RES 0.003 OHM 1% 1.5W 2010	,
	0.006 Ohm ±1% 0.5W, 1/2W Chip Resistor		,		,
	1206 (3216 Metric) Automotive AEC-Q200, Current Sense,				
RES 0.006 OHM 1% 1/2W 1206	Moisture Resistant Metal Element	R2	RES 1206	RES 0.006 OHM 1% 1/2W 1206	1
	1M Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric)				
RES 1M OHM 1% 1/10W 0603	Moisture Resistant Thick Film	R3, R8	RES, 0603	RES 1M OHM 1% 1/10W 0603	
	11.8k Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric)				
RES 11.8K OHM 1% 1/10W 0603	Moisture Resistant Thick Film	R4	RES, 0603	RES 11.8K OHM 1% 1/10W 0603	
	86.6k Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric)				
RES 86.6K OHM 1% 1/10W 0603	Automotive AEC-Q200 Thick Film	R5	RES, 0603	RES 86.6K OHM 1% 1/10W 0603	
		R6, R7, R29, R30, R31, R32, R33, R37, R38,			
RES 10K OHM 1% 1/10W 0603	RES SMD 10K OHM 1% 1/10W 0603	R32, R33, R37, R36, R41, R44, R45, R49, R50, R53, R54, R55, R56	RES, 0603	RES 10K OHM 1% 1/10W 0603	18
	4.7k Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric)	R9. R10. R34. R35. R36.			
RES 4.7K OHM 1% 1/10W 0603	Moisture Resistant Thick Film	R39, R40, R42, R43, R46, R47, R48, R51, R52	RES, 0603	RES 4.7K OHM 1% 1/10W 0603	14
	54.9k Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric)				
RES 54.9K OHM 1% 1/10W 0603	Automotive AEC-Q200 Thick Film	R11	RES, 0603	RES 54.9K OHM 1% 1/10W 0603	
	78.7k Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric)				
RES 78.7K OHM 1% 1/10W 0603	Automotive AEC-Q200 Thick Film	R12	RES, 0603	RES 78.7K OHM 1% 1/10W 0603	
	255k Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric)				
RES 255K OHM 1% 1/10W 0603	Moisture Resistant Thick Film	R13	RES, 0603	RES 255K OHM 1% 1/10W 0603	
RES 470K OHM 1% 1/4W 0603	RES SMD 470K OHM 1% 1/4W 0603	R14, R15, R20, R22	RES, 0603	RES 470K OHM 1% 1/4W 0603	
RES 0.0 OHM 1/4W 0603	RES SMD 0.0 OHM JUMPER 1/4W 0603	R16, R17, R21, R23, R24, R25, R26, R27, R28	RES, 0603	RES 0.0 OHM 1/4W 0603	
RES 140K OHM 1% 1/10W 0603		R18, R19	RES, 0603	RES 140K OHM 1% 1/10W 0603	
Test Point IC OR CONTROLLER	OR Controller Source	TP1, TP2, TP3, TP4, TP5, TP6	Test Point	Test Point IC OR CONTROLLER	
SOURCE SELECT 24SSOP	Selector Switch P- Channel 3:1 24-SSOP	U1	IC OR CTRLR SRC SELECT 24SSOP	SOURCE SELECT 24SSOP	1
IC REG LDO 3V 0.2A 4- TDFN IC OP AMP GEN	General Purpose	U2	IC REG LDO 3V 0.2A 4- TDFN	IC REG LDO 3V 0.2A 4- TDFN IC OP AMP GEN	1
IC OP AMP GEN PURPOSE RR 10MHZ SOT-23-5	General Purpose Amplifier 1 Circuit Rail- to-Rail SOT-23-5	U3, U4, U5, U8, U9	IC OP AMP GP RR 10MHZ SOT-23-5	PURPOSE RR 10MHZ SOT-23-5	,
IC CURRENT AMPLIFIER :	Current Sense Amplifier		IC OP AMP CURR SENSE	IC CURRENT AMPLIFIER	