

Description	Designator	Footprint	LibRef	Quantity
Capacitor, Ceramic, 50V, +/- 10%, 1206 SMD, X5R	C1, C2	CAPC3216N(1206")	10uF 50V 1206 SMD, Ceramic	2
CAP CER 0.1UF 50V 10% X7R 1608 (0603)	C3, C4, C5	CAPC1608N(0603")	0.1uF, 50V, 10%, X7R, 1608	3
Through Hole Diode	D1	Diode	Diode 1N400x	1
LED, Red, 0805 (2012) SMD, Clear	D2	LED0603	LED, Red, 0805 (2012) SMD, Clear	1
125V 10A Through Hole	J1, J2, J4	2X1 Terminal Blocks - duplicate	Terminal Blocks	3
	J3	4X1 Terminal Block	4x1 Terminal Block	1
30V 500mA 225mW SMD	Q2	PNP (MMBTA64LT1GOSCT- ND)	PNP	1
40V 600mA 300mW SMD	Q3	ND)	NPN	1
2.2V ~ 10V	Q5	Compartor (576-1318-1- ND)	Comparator	1
Res 10k 1206 SMD	R1, R13	Resistor 1206	10k	2
10kR, 1%, 1/10W, 0603 SMD	R2, R6, R8	RESC1608N(0603")	10kR, 1%, 1/10W, 0603 SMD	3
Res 15k, 0805, SMD	R3	RES 0805	15k	1
Res 20k, 0805, SMD	R4	RES 0805	20k	1
4.7kR, 1%, 1/8W, 0805 SMD	R5	RESC2012N(0805")	4.7kR, 1%, 1/8W, 0805 SMD	1
Res 400 ohm 1206 SMD	R7	Resistor 1206	400	1
Res 100k, 1203, SMD	R9, R10, R11, R12	Resistor 1206	100k	4
	U1	LT1161	LT1161	1
8V~28V in, 5V out, 1A, 5W	U2	Buck Converter	Buck Converter	1
DIP Socket IC, SMD	U3	PIC 8-DIP	Socket IC	1
	Capacitor, Ceramic, 50V, +/- 10%, 1206 SMD, X5R CAP CER 0.1UF 50V 10% X7R 1608 (0603) Through Hole Diode LED, Red, 0805 (2012) SMD, Clear 125V 10A Through Hole 30V 500mA 225mW SMD 40V 600mA 300mW SMD 2.2V ~ 10V Res 10k 1206 SMD 10kR, 1%, 1/10W, 0603 SMD Res 15k, 0805, SMD Res 20k, 0805, SMD 4.7kR, 1%, 1/8W, 0805 SMD Res 400 ohm 1206 SMD Res 100k, 1203, SMD Res 100k, 1203, SMD Gate Driver, 8V ~ 48V, 4 channels 8V~28V in, 5V out, 1A, 5W	Capacitor, Ceramic, 50V, +/- 10%, 1206 SMD, X5R C1, C2 CAP CER 0.1UF 50V 10% X7R 1608 (0603) C3, C4, C5 Through Hole Diode D1 LED, Red, 0805 (2012) D2 125V 10A Through Hole J1, J2, J4 J3 30V 500mA 225mW SMD Q2 40V 600mA 300mW SMD Q3 2.2V ~ 10V Q5 Res 10k 1206 SMD R1, R13 10kR, 1%, 1/10W, 0603 SMD R2, R6, R8 Res 15k, 0805, SMD R3 Res 20k, 0805, SMD R4 4.7kR, 1%, 1/8W, 0805 SMD R5 Res 400 ohm 1206 SMD R7 Res 100k, 1203, SMD R9, R10, R11, R12 Gate Driver, 8V ~ 48V, 4 channels U1 8V~28V in, 5V out, 1A, 5W	Capacitor, Ceramic, 50V, +/- 10%, 1206 SMD, X5R C1, C2 CAPC3216N(1206") CAP CER 0.1UF 50V 10% X7R 1608 (0603) C3, C4, C5 CAPC1608N(0603") Through Hole Diode LED, Red, 0805 (2012) SMD, Clear D2 LED0603 125V 10A Through Hole J3 4X1 Terminal Blocks - duplicate J3 4X1 Terminal Block PNP (MMBTA64LT1GOSCT-ND) NPN (MMBT2222ALT1GOSCT-ND) NPN (MMBT2222ALT1GOSCT-ND) NPN (MMBT2222ALT1GOSCT-ND) Res 10k 1206 SMD R1, R13 Resistor 1206 10kR, 1%, 1/10W, 0603 SMD R2, R6, R8 RESC1608N(0603") Res 20k, 0805, SMD R4 RES 0805 Res 20k, 0805, SMD R4 RES 0805 Res 400 ohm 1206 SMD R7 Resistor 1206 Gate Driver, 8V - 48V, 4 channels U1 LT1161 8V-28V in, 5V out, 1A, 5W Buck Converter	Capacitor, Ceramic, 50V, +/- 10%, 1206 SMD, XSR C1, C2 CAPC3216N(1206") Ceramic O.1uF, 50V, 1206 SMD, XSR C3, C4, C5 CAPC1608N(0603") 1608 Diode Diode ILED, Red, 0805 (2012) SMD, Clear D2 LED0603 SMD, Clear D3 AX1 Terminal Blocks duplicate Terminal Blocks D1, J2, J4 duplicate Terminal Block DNP MBT