

VALUE	PCB	MOUSER	Qty	SIZE	NOTES
RESISTORS					
0R	R87		1	PITCH 10MM	1/4W MF 1% WIRE JUMPER
10R	R28, R29, R30, R31, R70, R71, R73, R77, R86	271-10-RC	9	PITCH 10MM	1/4W MF 1%
68R	R27, R41, R72, R84	271-68-RC	4	PITCH 10MM	1/4W MF 1%
100R	R38, R81	271-100-RC	2	PITCH 10MM	1/4W MF 1%
200R	R89, R90	271-200-RC	2	PITCH 10MM	1/4W MF 1%
1K	R33, R34, R35, R37, R75, R76, R78, R80	271-1K-RC	8	PITCH 10MM	1/4W MF 1%
2K3	R32, R36, R74, R79, R42, R91	271-2.32K-RC	4	PITCH 10MM	1/4W MF 1%
3K3	R42, R91 use 2k3	271-2.32K-RC	2	PITCH 10MM	1/4W MF 1%
10K	R39, R82,	271-10K-RC	4	PITCH 10MM	1/4W MF 1%
20K	R21, R22, R23, R25, R64, R65, R66, R68, R43, R85 (R43 and R85 10K on PCB)	271-20K-RC	8	PITCH 10MM	1/4W MF 1%
510K	R24, R67	660-MF1/4DCT52R5103F	2	PITCH 10MM	1/4W MF 1%
4M7	R26, R40, R69, R83	603-MFR-25FTE52-4M7	4	PITCH 10MM	1/4W MF 1%
SMD	R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115			1206	NOT INSTALL NOT USE, OPTIONAL
2 WATT RESISTORS					
33R	R88	594-5083NW33R00J	1	PITCH 12MM	2WATT
DIODES					
1N4004	D1, D2, D3, D4	512-1N4004	4		
DIODE BRIDGE					
GBU4	B1	512-GBU4J	1	GBU4 CASE	
CERAMIC CAPACITORS X7R(POWER)					
0.1uF	C25, C26, C28, C29, C31, C32, C34, C35, C36, C37, C64, C65, C68, C69, C72, C73, C74, C75, C77, C78, C84, C85, C89, C90, C91, C92, C96, C97, C98	594-K104M15X7RF53L2	29	PITCH 2.5MM	
CERAMIC CAPACITORS C0G or MICA					
15pF	C4, C38, C45, C80	80-C316C150J1G	4	PITCH 2.5MM	
FILM CAPACITORS					
100pF	C27, C71	505-FKP4100/400/10	2	LS 10-15MM 6MM x 18MM	
1nF	C18, C23, C59, C63	505-FKP1R011004B00MS	4	LS 10-15MM 6MM x 18MM	
2n2F	C33, C76	505-FKP42200/1KV/10	2	LS 10-15MM 6MM x 18MM	
3n3F	C30, C70	505-FKP43300/1000/5	2	LS 10-15MM 6MM x 18MM	

VALUE	PCB	MOUSER	Qty	SIZE	NOTES
4n7F	C20, C66	505-FKP1G1474B00KSSD	2	LS 10-15MM 6MM x 18MM	
10nF	C14, C57	505-FKP10.01/400/5	2	LS 10-15MM 6MM x 18MM	
22nF	C9, C11, C15, C49, C51, C58	505-MKS4O122204B00MS	6	LS 10-15MM 6MM x 18MM	
47nF	C8, C24, C48, C67	505-M10.047/400/10P	4	LS 10-15MM 6MM x 18MM	
68nF	C19, C62	505-MKS4.068/630/10P	2	LS 10-15MM 6MM x 18MM	
100nF	C10, C12, C13, C52, C53, C56	505-MKP4-.140010P15	6	LS 10-15MM 6MM x 18MM	
330nF	C7, C50	505-MKP4D033304C00JS	2	LS 10-15MM 6MM x 18MM	
680nF	C6, C47	667-ECQ-E2684KF	2	LS 10-15MM 6MM x 18MM	
2u2F	C3, C5, C39, C44, C46, C79	505-MKS42.2/63/5P15	6	LS 10-15MM 6MM x 18MM	
ELECTROLYTIC CAPACITORS					
10uF	C40, C41, C81, C82	647-UFG1J100MEM	4	DIAM 6MM PITCH 2.5MM	AUDIO
100uF	C1, C2, C16, C17, C21, C22, C42, C43, C54, C55, C60, C61, C83, C93, C94, C95, C99, C100	667-EEU-FR1H101	18	DIAM 8MM PITCH 3.5MM	LOW ESSR
2200UF	C86, C87, C88	667-EEU-FC1V222S	3	DIAM 18MM PITCH 7.5MM HIGH 30MM	35 VOLT LOW ESSR
ICs					
ULN2003AN	IC1, IC2, IC6, IC7	595-ULN2003AN	4	DIP16	
THAT 1646	IC5, IC10	887-1646P08-U	2	DIP8	
TL071, LF411, OPA604	IC3, IC4, IC8, IC9	595-TL071BCP	4	DIP8	595-OPA604AP
SOCKETS					
DIP8		575-199308	6	DIP8	
DIP16		575-199316	4	DIP16	
RELAYS					
DPDT 12VDC 1A	K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14, K15, K16, K17, K18, K19, K20, K21, K22, K23, K24, K25, K26, K27, K28	653-G5V-2-H-DC12	28	G5V	12 VOLT
JUMPERS					
2 pin Header	JP1, JP2, JP3	538-22-28-4160	3	PITCH 2.54MM	
Jumpers	JP1, JP2, JP3	571-881545-5	3	PITCH 2.54MM	
TRIMPOTS					
5K	+18V_TRIM, -18V_TRIM	72-T93YA-5K	2		MULTI TURN
50K	TR1, TR2	72-T93YA-50K	2		MULTI TURN

VALUE	PCB	MOUSER	Qty	SIZE	NOTES
VOLTAGE REGULATORS					
LM337	U4	863-LM337TG	1	TO-220	
LM317	U3	512-LM317T	1	TO-220	
LM7812	U2	512-LM7812ACT	1	TO-220	
78L05	U1	863-MC78L05ABPG	1	TO-92	
HEATSINK	U2, U3, U4	532-513002B25G	3	TO-220	
MOLEX HEADER					
2 PIN	PWR_LED	538-22-23-2021	1	PITCH 2.54MM	
3 PIN	IN_1, IN_2, OUT_1, OUT_2, LF1_GAIN, LF2_GAIN, HF1_GAIN, HF2_GAIN	538-22-23-2031	8	PITCH 2.54MM	
4 PIN	BYPASS	538-22-23-2041	1	PITCH 2.54MM	
MOLEX CRIMP HOUSING					
2 PIN	PWR_LED	538-22-01-2027	1	PITCH 2.54MM	
3 PIN	IN_1, IN_2, OUT_1, OUT_2, LF1_GAIN, LF2_GAIN, HF1_GAIN, HF2_GAIN	538-22-01-2037	8	PITCH 2.54MM	
4 PIN	BYPASS	538-22-01-2047	1	PITCH 2.54MM	
Solder Terminals		538-08-52-0123	30		
IDC CONNECTORS					
14PIN FEMALE	CH1, CH2	517-D89114-0131HK	2	PITCH 2.54MM	
14PIN MALE	CH1, CH2	571-5103308-2	2	PITCH 2.54MM	
RIBBON CABLE					
14 PIN		517-3302/16FT	1	1 FOOT	
XLRs					
XLR MALE	LEFT_OUT, RIGHT_OUT	568-NC3MD-LX	2	D SERIES	
XLR FEMALE	LEFT_IN, RIGHT_IN	568-NC3FD-LX	2	D SERIES	
POWER					
Terminal Block 2WAY	XFRM	651-1985881	2	PITCH 5MM	
IEC INLET		562-719W-00/04	1	PANEL MOUNT IEC	
FUSE 500 mA		693-0034.3112	1	5 x 20MM	

DR MB2 FRONT PANEL V.1 BOM

VALUE		PCB	MOUSER	QTY		
RESISTORS						
	1K	R_LED1, R_LED2	271-1K-RC	4		1/4W MF 1%
	2K3	R_LED3	271-2.32K-RC	1		1/4W MF 1%
ROTARY SWITCHES						
	1 POLE 12 STEP	HF1, HF2, LF1, LF2	10SM159	4		
TOGGLE SWITCHES						
	SPDT ON OFF	BYPASS, PWR	506-A101SYCQ04	3		
LEDS						
	3MM LED	BYPASS, PWR	604-WP424QR51WT/DAMT	3	DIAMETER 3MM	
IDC CONNECTORS						
	14PIN FEMALE		517-D89114-0131HK	2		
	14PIN MALE		571-5103308-2	2		
KNOBS						
	KNOBS			8		

DR BX2 OPTION 1. 21 STEPS GAIN

VALUE		PCB	Qty	MOUSER		
ROTARY SWITCH						
	24 Step 1 Pole	GAIN	4		Use 21 step	Uraltone, Elma
RESISTORS						
	STEP 1	200R		271-200-RC		
	STEP 2	200R		271-200-RC		
	STEP 3	232R		603-MFR-25FBF52-232R		
	STEP 4	232R		603-MFR-25FBF52-232R		
	STEP 5	249R		603-MFR-25FTE52-249R		
	STEP 6	249R		603-MFR-25FTE52-249R		
	STEP 7	249R		603-MFR-25FTE52-249R		
	STEP 8	270R		603-MFR-25FTE52-270R		
	STEP 9	270R		603-MFR-25FTE52-270R		
	STEP 10	270R		603-MFR-25FTE52-270R		
	STEP 11	270R		603-MFR-25FTE52-270R		
	STEP 12	270R		603-MFR-25FTE52-270R		
	STEP 13	270R		603-MFR-25FTE52-270R		
	STEP 14	249R		603-MFR-25FTE52-249R		
	STEP 15	249R		603-MFR-25FTE52-249R		
	STEP 16	249R		603-MFR-25FTE52-249R		
	STEP 17	232R		603-MFR-25FBF52-232R		
	STEP 18	232R		603-MFR-25FBF52-232R		
	STEP 19	200R		271-200-RC		

DR BX2 OPTION 1. 21 STEPS GAIN

VALUE		PCB	Qty	MOUSER		
	STEP 20	200R		271-200-RC		

DR BX2 OPTION 2. 11 STEPS GAIN

VALUE			PCB	Qty	MOUSER	
ROTARY SWITCH						
	12 STEPS 1 POLE	GAIN		4	10SM159	LORLIN, Grayhill
RESISTORS						
	STEP 1	390R				
	STEP 2	470R				
	STEP 3	499R				
	STEP 4	510R				
	STEP 5	560R				
	STEP 6	560R				
	STEP 7	510R				
	STEP 8	499R				
	STEP 9	470R				
	STEP 10	390R				

DR BX2 POTENTIOMETR GAIN

VALUE	PCB	Qty	MOUSER

DR BX2 POTENTIOMETR GAIN

VALUE		PCB	Qty	MOUSER		
2	5K LIN	GAIN	4			

BOM UPDATE HISTORY

DATE	DESCRIPTION
17.04.2019	First version