



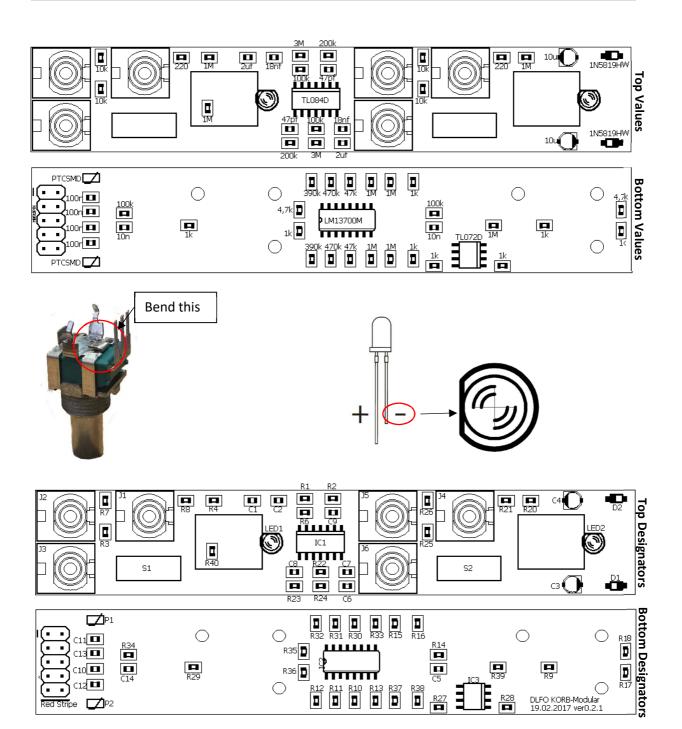


## **Before you start:**

This is an beginner friendly SMT project. Nevertheless you should know how to handle electronic equipment like soldering tools, Multimeters or a scope.

I recommend a hot air gun for the SMT Parts. But for sure it, will also work with an soldering iron.

Build time is appox. 1-2 hours





Qty	Value	Parts	Description	MOUSER
Resistor				
2	220	R8, R21	RESISTOR	667-ERJ-3EKF2200V
8	1k	R9, R16, R17, R27, R28, R29, R36, R38	RESISTOR	667-ERJ-3EKF1001V
2	4,7k	R18, R35	RESISTOR	667-ERJ-3EKF4701V
4	10k	R3, R7, R25, R26	RESISTOR	667-ERJ-3EKF1002V
2	47k	R10, R30	RESISTOR	667-ERJ-3EKF4702V
4	100k	R6, R14, R22, R34	RESISTOR	667-ERJ-3EKF1003V
2	200k	R2, R23	RESISTOR	667-ERJ-3EKF2003V
2	390k	R12, R32	RESISTOR	667-ERJ-3EKF3903V
2	470k	R11, R31	RESISTOR	667-ERJ-3EKF4703V
8	1M	R4, R13, R15, R20, R33, R37, R39, R40	RESISTOR	667-ERJ-3EKF1004V
2	3M	R1, R24	RESISTOR	667-ERJ-3GEYJ305V
2	50kb	R5, R19	Potentiometer	688-RK09L1140A5P please check your front panels first or be ready to drill their holes bigger
Capacitors				
2	47p	C8, C9	CAPACITOR	81-GRM39C470J50
2	10n	C5, C14	CAPACITOR	81- GRM18R71H103JA01D
2	18n	C2, C7	CAPACITOR	81- GRM18R71H183JA01D
4		C10, C11, C12, C13	CAPACITOR	81- GRM188R71E104JA1J
	2,2u	C1, C6	CAPACITOR	581-0603ZC225KAT2A
2	10u	C3, C4	POLARIZED CAPACITOR	647-UWX1C100MCL2
Semiconductors Semiconductors				
2	1N5819HW	D1, D2	DIODE	621-1N5819HW-F
1	LM13700M	IC2	National Dual OTA with buffers.	926- LM13700MX/NOPB
1		IC1	OP AMP	511-TL084BCDT
	TL072D	IC3	OP AMP	511-TL072BCDT
Misc				
2		LED1, LED2	RED/GREEN DIFFUSED 2-LEAD	604-WP937EGW
2		P1, P2	Resettable Fuse PTC	504-PTS120616V025
		· -/· -	The section of the se	www.korb-
1	1 DLFO PCB			modular.com
			www.korb-	
1 DLFO Panel			modular.com	
Mechanical Mechanical				
1	M05X2PTH	JP2	Header 5x2	
6	1	J1, J2, J3, J4, J5, J6		Thonk
2		S1, S2	SPDT Switch	108-0051-EVX