

Neil Johnson VCLFO Parts List

PCB Components				
Designator	Description	Qty	Mouser P/N	Comments
Capacitors				
C1,C8,C12,C13,C17,C30	22 pF ceramic	6	80-C315C220K1G	2.5 mm lead spacing
C9,C10,C11,C16	560 pF ceramic	4	80-C315C561K1G	2.5 mm lead spacing
C20,C21,C22,C23,C24,C25,C26,C27	10 nF ceramic	8	147-72-103-RC	5 mm lead spacing
C19,C29	100 nF ceramic	2	147-72-104-RC	5 mm lead spacing
C5,C6,C7,C15	220 nF mylar film	4	505-MKS20.22/63/10	box film; can substitute 94-2222-368-25224 with 10 mm lead spacing
C18,C28	10 uF 25V electrolytic	2	140-LLRL35V10-RC	2 mm lead spacing
Resistors - all 0.25W 1% metal film				
R35,R40	22R	2	271-22-RC	can substitute short ferrite 623-2743001112LF
R3,R15,R18,R24	100R	4	271-100-RC	
R11,R12,R13,R27,R33,R42	510R	6	271-510-RC	
R20,R23,R25,R29,R37	3K3	5	271-3.3K-RC	
R4,R5,R6,R7,R8,R9,R21,R22,R26, R28,R30,R34,R38,R39	33K	14	271-33K-RC	
R1,R2,R10,R14,R16,R17,R19,R32,R32, R41,R43	100K	11	271-100K-RC	
Semiconductors				
D1,D2,D3,D4,D5,D6,D11,D12,D16	BZX55C2V7	9	512-BZX55C2V7	
D7,D8,D9,D10,D13,D14,D15,D17	1N4148	8	512-1N4148	
IC2,IC3,IC4,IC5,IC6	TL072ACP	5	595-TL072ACP	
IC7	TL082BCP	1	595-TL082BCP	
IC1	SSM2164P	1		Digikey SSM2164PZ-ND
Connectors				
CON1,CON2	HE14 2X4 header	2	517-836-01-04	optional; can substitute 517-665-01-36 break-away gold header
CON3	4 pin 0.156 MTA	1	571-6404454	power connector
LED components (not on PCB)				
Op amp	TL072ACP	1	595-TL072ACP	
Capacitor	1 nF ceramic	2	581-SA105A102JAR	
Resistor	100R	2	271-100-RC	
Resistor	1K	2	271-1K-RC	
Panel Components				
Jacks	1/4" NC	6	502-112AX	use Bridechamber for lower cost alternative
Potentiometers	100K	3		BI Technologies P260P-D1BS3CB100K
Knobs	Tyco	3	506-PKES90B1/4	
Switch	SPDT flatted handle	1	1055-TA2130-EVX	lower cost Mountain alternative to NKK 633-M201202-RO
LED	bi-color	2	696-SSI-LXH387HGW	Lumix panel mount
CON3 mating connector	4 pin 0.156 MTA 18 AWG	2	571-6404264	power cable connector
	4 pin 0.156 MTA dust cap	2	571-6405514	power cable dust cap

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Aug. 15, 2009