



EML-101 Multimode VCF

1998. Drawn by Marjan Urekar

ORIGINAL ICs :
 U1,3,4,5,6,10 = uA741
 U2 = 1456
 U7,8,9 = uA748
 U11 = uA726
 TR. PAIR 1,2 = TD101

Use TL071 for all ICs, for Tr. pair use matched NPNs (-1mV) or tr. pairs like MAT02 or 2SC1583, or you can use CA3046 or CA3086 instead, with pins showed in brackets, and use it for expo tranny also, but you lose uA726 heated stability so you must consider using separate CA with heating and sensing transistor scheme (like shared with VCO expos). You can put discrete NPN in place of 726 and lose some temp. tracking, but it's not crucial in VCF. Q1,2 are labeled "14", use some NPNs. Capacitors C can be changed with some higher values for different effect.