

4017 7490	n	Fmax	Fmin	min Fo	wide
counter					
divide	10	96,90	8,81	52,85	88,09
by	10	968,99	88,09	528,54	880,90
n	10	9689,92	880,90	5285,41	8809,02

pll	4046	
fmin=	8809,020	Hz
fo	52854,123	Hz
fmax=	96899,225	Hz
wide	88090,204	Hz
R2=	110000	100kPot+10k
R1=	10000	10k
C1=	0,000000001	1nf
Vcc	12	V

low pass		
wb=1/rc		
wb=	1,59	Hz
R3	100000	100k
c2	0,000001	1uf
2 pi =	6,28	
R4	10k	