Hojas de datos: Práctica nº 2. Parte 3. Filtros Activos

• Filtro Variable de Estado.

V_{cc} [V_p]	V_{EE} [V_p]	V_{in} [V_p]	V_{out} [V_p]	A [V/V]	Frec [KHz]	T [ms]
10 ± 0.1	-10 ± 0.1	1 ± 0.1	1.9 ± 0.1	1.9	1 kHz	1 ms ± 40 µs
f.c → "	"	"	1.2 ± 0.1	1.2	3.2	300 µs ± 20 µs
			1.7 ± 0.1	1.7	2	500 µs ± 20 µs
			1.8 ± 0.1	1.8	1.5	660 µs ± 20 µs
			1 ± 0.1	1	3.5	280 µs ± 10
			0.5 ± 0.1	0.5	5.5	180 µs ± 10

Filtro de salida para bajo.

Donde esta $H_0 = 2$?

	V_{cc} [V_p]	V_{EE} [V_p]	V_{in} [V_p]	V_{out} [V_p]	A [V/V]	frec [KHz]	T [s]
Techo	10 ± 1	-10 ± 1	1 ± 0.1	0.52 ± 40 µ	0.52 m	3.5 KHz	300 µs ± 20 µs
fcs	"	"	"	0.36 ± 20	0.36	6.2 kHz	140 µs ± 10 µs
				0.2 ± 20	0.2	12.4 kHz	80 µs ± 4 µs
fci	"	"	"	0.36 ± 20	0.36	1.3 KHz	760 µs ± 40 µs
				0.2 ±	0.2	700 Hz	1.4 ms ± 100 µs

0,2 m ± 40 µ

Filtro de salida para banda.

	V_{cc} [V_p]	V_{EE} [V_p]	V_{in} [V_p]	V_{out} [V_p]	A [V/V]	frec [kHz]	T [s]
Techo	10 ± 1	-10 ± 1	1 ± 0.1	0.4 ± 20	0.4	5 K Hz	200 µs ± 10 µs
f.i	"	"	"	0.3 ± 20	0.3	3 kHz	320 µs ± 20 µs
				0.18 ± 10	0.18	2K4	500 µs ± 20 µs.
				0.44 ± 40	0.44	10KHz	100 µs ± 4 µs

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Filtro Sallen-Key

	$V_{CC}[V_p]$	$V_{EE}[V_p]$	$V_{in}[V_p]$	$V_{out}[V_p]$	$A[V/V]$	$f_{rec}[kHz]$	$T[s]$
f.c	10 ± 1	-10 ± 1	1 ± 0.1	2.2 ± 0.2	2.2	1kHz	$1ms \pm 40us$.
	"	"	"	1.5 ± 0.1	1.5	5.4kHz	$180us \pm 10us$
				1 ± 0.1	1	8.1kHz	$120us \pm 10ms$
				$0.48 \pm 40m$	0.48	17kHz	$58us \pm 2us$
				2 ± 0.1	2	120Hz	$10ms \pm 0.4ms$.

Filtro pasa bajo

Filtro retroalimentación multiples

	$V_{CC}[V_p]$	$V_{EE}[V_p]$	$V_{in}[V_p]$	$V_{out}[V_p]$	$A[V/V]$	$f_{rec}[kHz]$	$T[s]$
f.c	10 ± 1	-10 ± 1	1 ± 0.1	1.9 ± 0.1	1.9	1kHz	$1ms \pm 40us$.
	"	"	"	1.4 ± 0.1	1.4	2.8kHz	$340us \pm 20ms$
				$0.8 \pm 40m$	0.8	4.1kHz	$230us \pm 10ms$
				$0.6 \pm 40m$	0.6	4.9kHz	$200us \pm 10ms$
				1.9 ± 0.1	1.9	120Hz	$10ms \pm 0.4ms$

Filtro pasa bajo

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