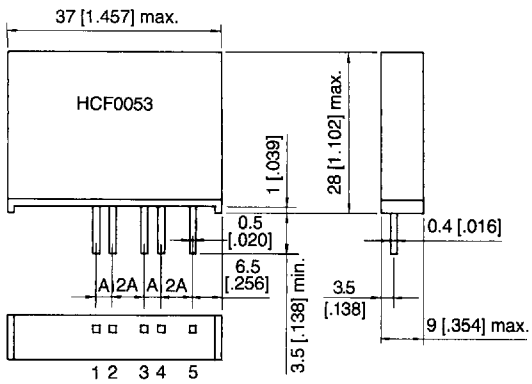
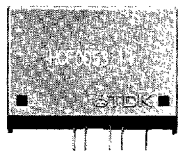
COMB FILTER MODULES FOR Y/C SEPARATION IN NTSC TV AND VCR, HCF SERIES

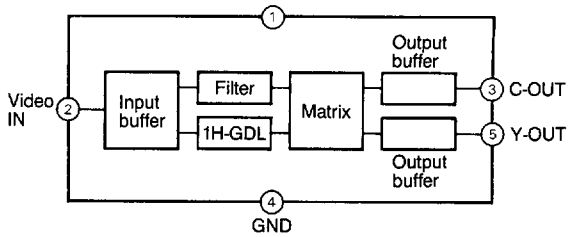


Dimensions in mm [inches]

Pin No. 1: Vcc
Pin No. 2: VIDEO IN
Pin No. 3: C-OUT
Pin No. 4: GND
Pin No. 5: Y-OUT



Block diagram



RATED VOLTAGE AND TEMPERATURE RANGE

Rated voltage (Vdc)	9 ± 0.5
Operating temperature range (°C) [°F]	0 to 60 [32 to 140]
Storage temperature range (°C) [°F]	−20 to +70 [−4 to +158]

ELECTRICAL CHARACTERISTICS
HCF0053

Output	Item	[MHz]	min.	typ.	max.
Y-OUT	Output level (dB)	0.100000	−0.7	−0.2	+0.3
		3.571678	−1.5	−0.5	+0.5
		4.500000	−1.5	−0.5	+0.5
	Comb attenuation (dB)	3.0760485	13	18	
		3.579545	26	40	
		4.0830415	14	18	
	2T pulse response (%)			1.5	2.5
	Spurious noise (dB)		−30	−38	
	Input/output direct voltage deviation (V)		−0.5	0	+0.5
C-OUT	Output level (dB)	3.579545	−0.5	−0.5	+0.5
	Comb attenuation (dB)	3.571678	−20	−35	
	Consumption currents (mA)				40

- *Operating temperature: 25 ± 5°C [77 ± 9°F]*
- *The 0dB reference is set at 0.1MHz*

HCF0261

Output	Item	[MHz]	min.	typ.	max.
Y-OUT	Output level (dB)	0.100000	−0.7	−0.2	+0.3
		3.571678	−1.7	−0.2	+1.3
		4.500000	−3	+1	—
	Comb attenuation (dB)	3.0760485	7	10	
		3.579545	26	40	
		4.0830415	11	15	
	2T pulse response (%)			1.5	3
	Spurious noise (dB)		−30	−38	
	Input/output direct voltage deviation (V)		−0.5	0	+0.5
C-OUT	Output level (dB)	3.579545	−1.5	0	+1.5
	Comb attenuation (dB)	3.571678	−1.5	−30	
	Consumption currents (mA)				65

- *Operating temperature: 25 ± 5°C [77 ± 9°F]*
- *The 0dB reference is set at 0.1MHz*