

Voltage-Controlled Filters

AP-6VC Series

Model APVLP-6VC voltage-controlled low-pass filter

These steep rolloff filters are particularly useful as antialiasing filters required in data acquisition systems.

Model APVHP-6VC voltage-controlled high-pass filter

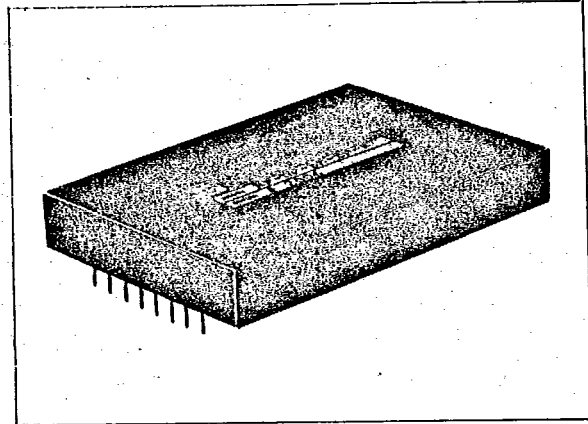
Response for both the low-pass and the high-pass models may be specified as Butterworth, Elliptic, Chebyshev, or Linearized phase.

Model APVBP-6VC voltage-controlled band-pass filter

Bandwidth to specification

Model APVBR-6VC voltage-controlled band-reject filter

Bandwidths available to specification.



FREQUENCY TUNING LIMITS:*	0.1 Hz. to 100 KHz.
FREQUENCY RATIO:**	1:12
FREQUENCY STABILITY:	0.01% / °C
FREQUENCY ACCURACY:	± 2%
POLES:	6 (36 db/octave)
	also available:
	4 pole 24 db/octave
	2 pole 12 db/octave
GAIN:	± 0.2 db, non-inverting
CONTROL VOLTAGE RANGE:	± 13 volts
NOISE:	150 microvolts rms DC-100 KHz.
INPUT IMPEDANCE:	20 Kohms
OUTPUT IMPEDANCE:	less than 1 ohm
MAXIMUM SIGNAL LEVEL:	± 10 volts
MAXIMUM LOAD:	2500 ohms
POWER SUPPLY:	± 15 volts @ 45 mA
	low power option available
DC OFFSET:	10 mV maximum, adjustable
	externally to 0 mV
OPERATING TEMPERATURE:	0°C to 60°C
DIMENSIONS:	3.5" x 2.5" x 0.5"
PINS:	0.025" diameter; 0.2" spacing
	Row Spacing 3.3"

- * Any frequency range corresponding to a 1:12 ratio may be chosen from within the tuning limits of 0.1 Hz. to 100 KHz. High Q band-pass and band-reject filters are limited to lower frequencies only.
- ** Frequency ratios as high as 1:250 are available with reduced linearity and reduced signal level.



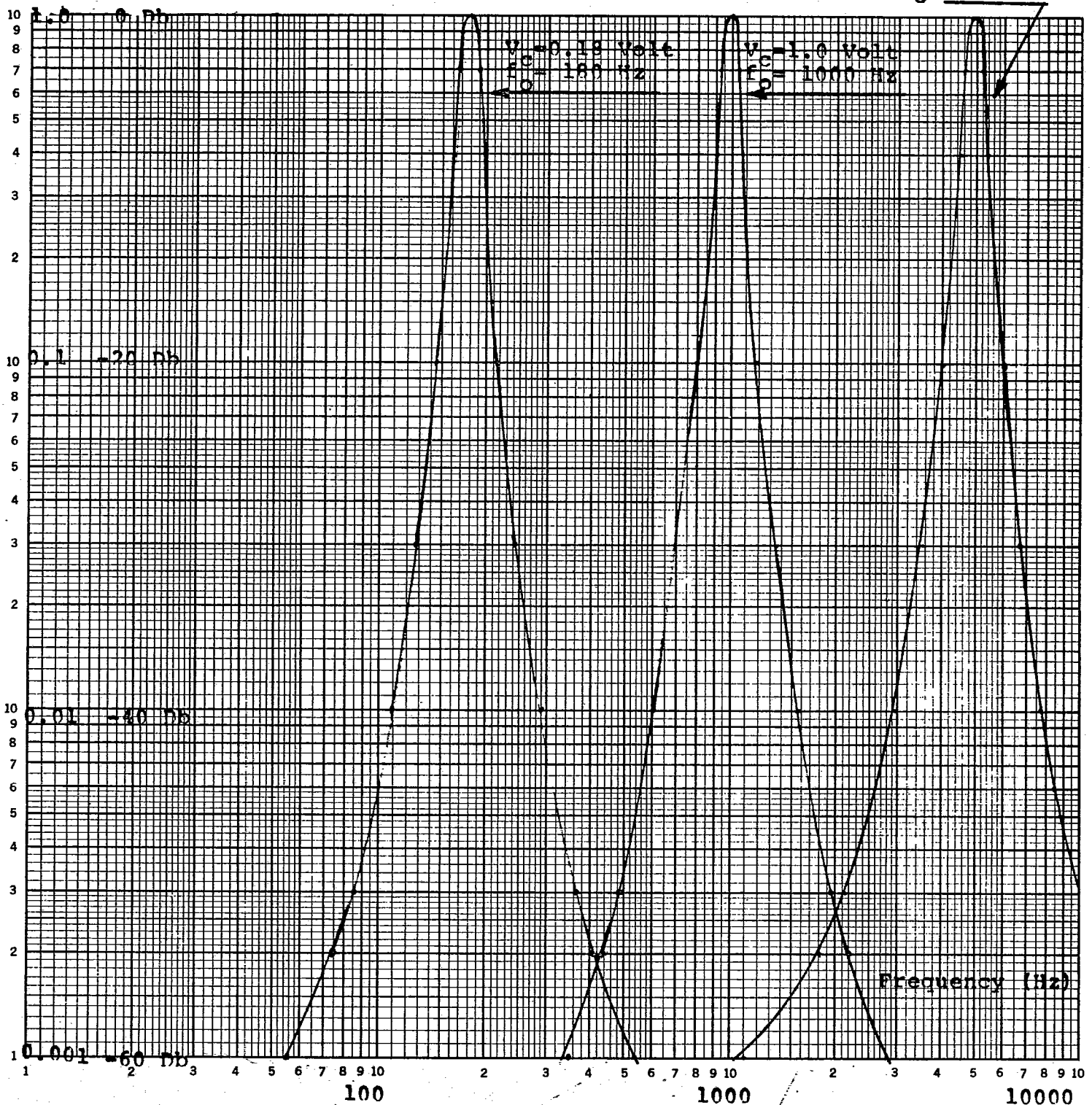
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Characteristic Curves of MODEL APB-6VC

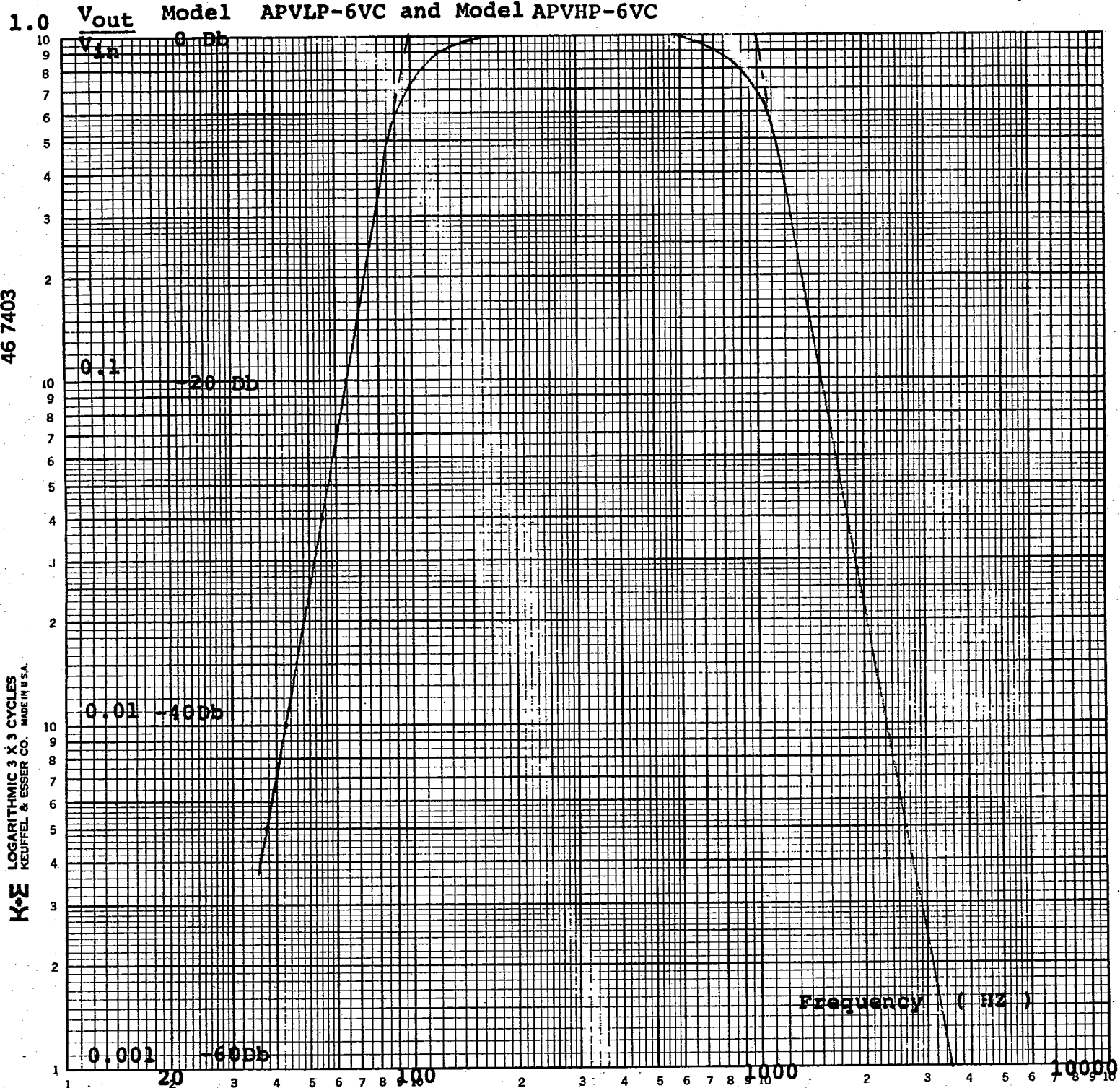
VOLTAGE CONTROLLED BAND-PASS FILTER

 $V = 5.00 \text{ Volt}$
 $f_c = 5000 \text{ Hz}$
 V_{out}/V_{in} 

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Characteristic curves for the Variable Low-Pass Filter
and the Variable Frequency High-Pass Filter

Model APVLP-6VC and Model APVHP-6VC



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