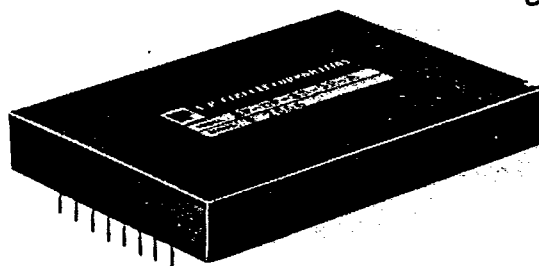


T-64-05

PROGRAMMABLE FILTERS MODEL: AP-DP



The series AP-DP programmable active filter modules are available with Low-Pass, High-Pass, or Band-Pass characteristics. Break-Points are variable and can be set with binary coded digital signals.

Model AP-DP-8S-5P is a 5 pole LOW-PASS filter. Three binary coded digital signals are used to select 1 of 8 break point frequencies covering a range of 10Hz to 100KHz. The following break points can be selected: f_0 , $2f_0$, $4f_0$, $8f_0$, $16f_0$, $32f_0$, $64f_0$, and $128f_0$. The standard response is minimum overshoot Butterworth but an external switch can be used to obtain the linearized phase type of response preferred in pulse work.

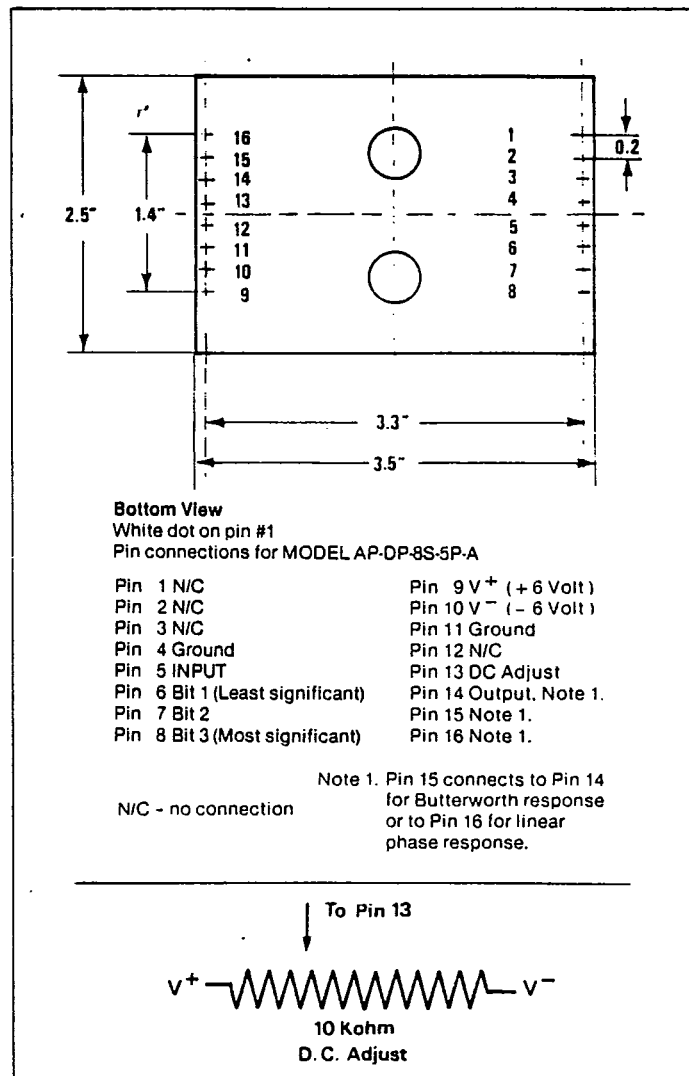
Electrical Characteristics:

Input Impedance	20 k ohm
Output Impedance	less than 1 ohm
Maximum signal level	8 Volt p.t.p. (with ± 6 Volt supply) (up to ± 10 Volt peak with ± 15 Volt supply option)
Maximum load	2500 ohms
Power supply	
Voltage	$V^+ = V^- = 6$ Volts (up to ± 15 Volts available specify option 15)
Current	± 17 ma (8 ma Low Power option available up to 40KHz)
Frequency stability	0.005% / $^{\circ}\text{C}$
Frequency accuracy	$\pm 5\%$
DC Offset.....	10mV maximum adjustable externally to 0mV
Gain (non-inverting)	± 0.2 Db
Ripple	0.5 Db
Attenuation Slope	30 Db/Octave
Poles.....	Five (30 Db/Octave) (4 pole 24 Db/Octave or 2 pole 12 Db/Octave available)
Noise (input shortened) ..	70 microvolts (DC-100KHz)
Operating Temperature ..	$0^{\circ}\text{C} - 60^{\circ}\text{C}$
Dimensions.....	3.5" x 2.5" x 0.5"
Pins.....	0.025" Diameter 0.2" spacing

Model AP-DP-8S-5P Cut off Frequencies

Frequency	Bit 3	Bit 2	Bit 1
1f _o	0	0	0
2f _o	0	0	1
4f _o	0	1	0
8f _o	0	1	1
16f _o	1	0	0
32f _o	1	0	1
64f _o	1	1	0
128f _o	1	1	1

0 - 0 Volt
1 - + 5 Volt



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