



FREQUENCY DEVICES INC

DESCRIPTION

The Model 584 Psophometer is used for measurements on commercial telephone circuits.

SPECIFICATIONS

(Typical @ 25°C and $\pm 15V$ unless otherwise noted)

INPUT

Impedance (min)	10k Ω
Source Impedance (max) ¹	600 Ω
Bias Current	0 (Capacitor Coupled 0.033 μ F)
Linear Voltage Range	$\pm 10V$
Safe Input Voltage	$\pm V_s$

OUTPUT

Rated Output @ 2mA ²	$\pm 10V$
Resistance	<1 Ω
Offset Voltage	$\pm 5mA$
Offset Drift	$\pm 100\mu V/^\circ C$
Noise ³	50 μV RMS

GAIN

0 $\pm$ 0.1dB @ 800Hz

POWER SUPPLY (DC) ($\pm V_s$)

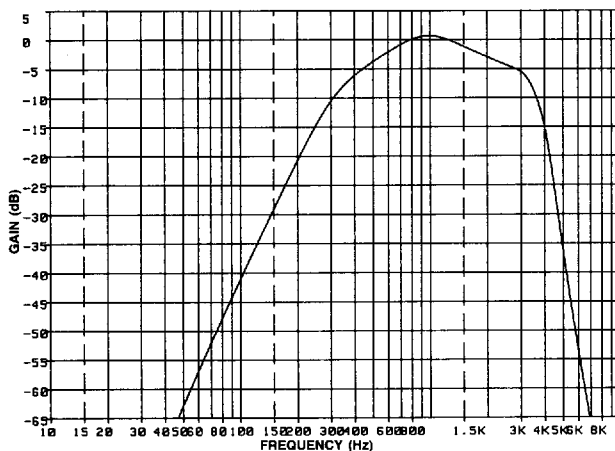
Supply Current	$\pm 1.5mA$ typ, $\pm 4.5mA$ max
Voltage, Operating	$\pm 5V$ to $\pm 18V$
Voltage, Rated	$\pm 15V$

TEMPERATURE

Operating	0°C to 70°C
Storage	-25°C to +85°C

NOTES: (All signal voltages are referenced to supply common.)

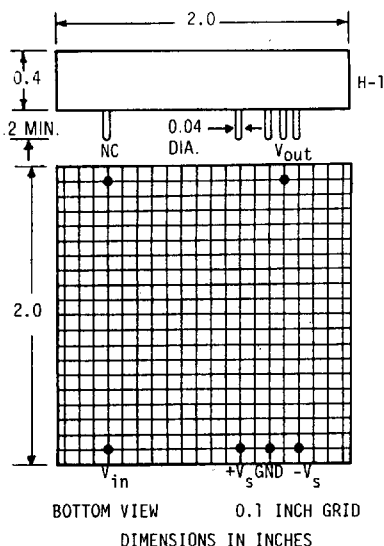
- Maximum allowable series input resistance if gain accuracies are to be maintained.
- Short circuit protected to ground. DO NOT CONNECT TO $\pm V_s$.
- Noise, DC to 50kHz excluding DC offset with input grounded.





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FREQUENCY Hz	GAIN dB	TOLERANCE dB
16.66	-65	MAX
50	-63	±1dB
100	-41	
200	-21	
300	-10.6	
400	-6.3	
500	-3.6	
600	-2.0	±0.1dB
700	-0.9	
800	0.0	
900	+0.6	±1dB
1000	+1.0	
1100	+0.6	
1200	0.0	
1300	-0.4	
1500	-1.3	
1800	-2.4	±1dB
2000	-3.0	
2500	-4.2	
2800	-5.0	
3000	-5.6	
3300	-7.0	
3500	-8.5	MAX
4000	-15.0	
4500	-25.0	
5000	-36.0	
6000	-43.0	



0.47

0.09

0.31

3.0

2.5

1.5

1.0

0.14 D/A

BOTTOM VIEW

NC	No Contact
V_{in}	Signal Input
V_{out}	Signal Output
$+V_s$	Voltage Supply, Positive
GND	Ground, Common
$-V_s$	Voltage Supply, Negative