

General-purpose amplifier used in narrow-band and bandpass amplifier, feedback amplifier, dc and video amplifier, multivibrator, oscillator, comparator, and servo driver applications. 12-lead "TO-5" package; Outline No. 2. For schematic diagram and characteristics curves, see Figs. 225 and 226.

MAXIMUM RATINGS

Positive DC Supply Voltage	V_{CC}	+20	V
Negative DC Supply Voltage	V_{EE}	-20	V
Input Signal Voltage (Single-ended)		+1, -8	V
Total Device Dissipation		600	mW
Temperature Range:			
Operating		-55 to 125	°C
Storage		-65 to 200	°C

**TYPICAL CHARACTERISTICS (At ambient temperature = 25°C,
 $V_{CC} = +12V$, $V_{EE} = -12V$)**

Input Offset Voltage	V_{IO}	1.37	mV
Input Offset Current	I_{IO}	1.07	μA
Input Bias Current	I_I	9.6	μA

TYPICAL CHARACTERISTICS (continued)**Input Offset Voltage Sensitivity:**

Positive	$\Delta V_{io}/\Delta V_{cc}$	0.096	mV/V
Negative	$\Delta V_{io}/\Delta V_{ee}$	0.156	mV/V

Device Dissipation:

Terminal 5 not connected	P_T	175	mW
Terminal 5 shorted to terminal 9	P_T	500	mW

Open-Loop Differential Voltage Gain

(f = 1 kHz)	A_{OL}	70.2	dB
Open-Loop -3-dB Bandwidth	BW_{OL}	320	kHz

Common-Mode Rejection Ratio

(f = 1 kHz)	CMR	103.5	dB
Maximum Output-Voltage Swing			

(f = 1 kHz)	$V_o(P-P)$	14	V_{p-p}
Input Impedance (f = 1 kHz)	Z_{in}	7.8	k Ω

Output Impedance (f = 1 kHz)	Z_{out}	92	Ω
Useful Frequency Range		dc to 50	MHz

Common-Mode Input-Voltage Range

(f = 1 kHz)	V_{CMR}	+0.65, -8	V