

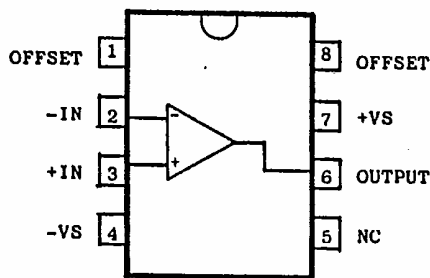


**ENGINEERING DATA**

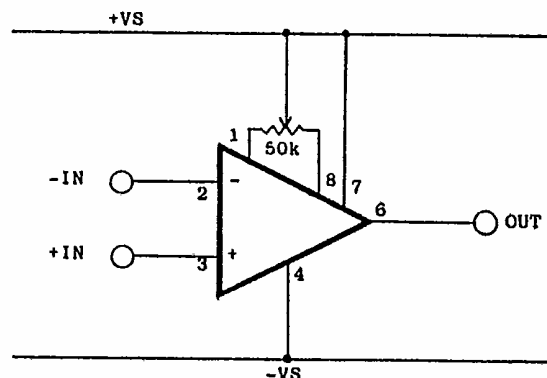
**DESCRIPTION:** The MA-362 is an ultra-low distortion, low noise operational amplifier with good slew rate characteristics, wide bandwidth and the ability to drive 600 ohm loads up to  $\pm 20$  volts (+13 dBm). Very low offset voltage usually eliminates the need for offset adjustment in DC coupled circuits. New input technology and topology results in superior performance. Very high open loop gain results in low distortion even at high closed loop gain levels.

**SPECIFICATIONS:** [ $\pm VS = \pm 24$  Volts,  $T_A = +25^\circ C$ ]

Parameter	MIN	TYP	MAX	UNITS
Input Offset Voltage		25	75	microvolts
Input Offset Current		15	60	nanoamps
Input Bias Current		20	75	nanoamps
Input Noise Voltage - 1kHz		2.5	4.0	nV/Hz $^{1/2}$
Input Noise Current - 1kHz		0.4	0.7	pA/Hz $^{1/2}$
Input Noise Voltage - 10Hz		3.0	4.5	nV/Hz $^{1/2}$
Input Noise Current - 10Hz		1.5	4.0	pA/Hz $^{1/2}$
DC Open Loop Gain	126	140		dB
Gain-Bandwidth Product	45	60		MHz
Total Harmonic Distortion		1.0	2.0	ppm
Slew Rate	$\pm 12$	$\pm 17$		Volts/ $\mu$ Sec
Output Voltage Swing - 600	$\pm 19$	$\pm 20$		Volts
Output Short Circuit Current	$\pm 32$	$\pm 35$		milliamps
Power Supply Voltage	$\pm 5$	$\pm 24$	$\pm 26$	Volts
Power Supply Current		$\pm 2.8$	$\pm 4.5$	milliamps
Power Dissipation		134	216	milliwatts
Closed Loop Gain	5			



Order Part Number MA-362-CP



Tucson, AZ

