

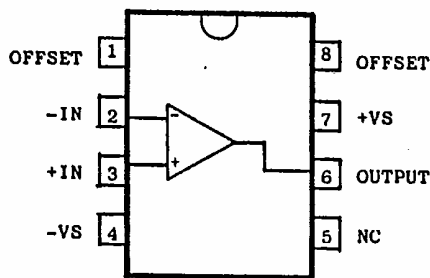


ENGINEERING DATA

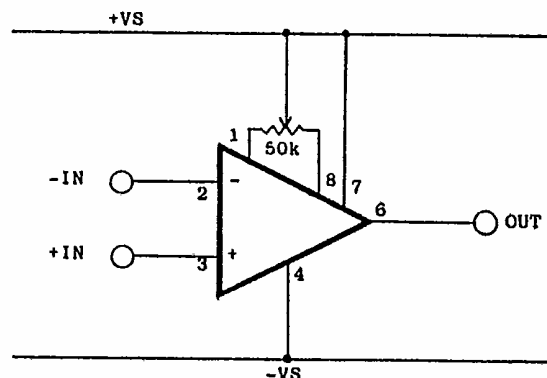
DESCRIPTION: The MA-362 is an ultra-low distortion, low noise operational amplifier with good slew rate characteristics, wide bandwidth and the ability to drive 600 ohm loads up to ± 20 volts (+13 dBm). Very low offset voltage usually eliminates the need for offset adjustment in DC coupled circuits. 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 $\frac{1}{2}$ |
| Input Noise Current - 1kHz | | 0.4 | 0.7 | pA/Hz $\frac{1}{2}$ |
| Input Noise Voltage - 10Hz | | 3.0 | 4.5 | nV/Hz $\frac{1}{2}$ |
| Input Noise Current - 10Hz | | 1.5 | 4.0 | pA/Hz $\frac{1}{2}$ |
| DC Open Loop Gain | 126 | 140 | | dB |
| Gain-Bandwidth Product | 45 | 60 | | MHz |
| Total Harmonic Distortion | | 1.0 | 2.0 | ppm |
| Slew Rate | ± 12 | ± 17 | | Volts/ μ Sec |
| Output Voltage Swing - 600 | ± 19 | ± 20 | | Volts |
| Output Short Circuit Current | ± 32 | ± 35 | | milliamps |
| Power Supply Voltage | ± 5 | ± 24 | ± 26 | Volts |
| Power Supply Current | | ± 2.8 | ± 4.5 | milliamps |
| Power Dissipation | | 134 | 216 | milliwatts |
| Closed Loop Gain | 5 | | | |



Order Part Number MA-362-CP



Tucson, AZ

