

**MSK**[查询"160"供应商](#)

# HIGH VOLTAGE HIGH CURRENT OPERATIONAL AMPLIFIERS

**Models 150, 160, 170, 180**

- 1 AMP OUTPUT CURRENT
- $\pm 30$  VOLT OUTPUT
- 20 kHz FULL POWER BANDWIDTH
- 1 MHz UNITY GAIN BANDWIDTH
- $\pm 25$  VOLT CMV RANGE
- $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  OPERATING RANGE
- $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$  STORAGE
- SHORT CIRCUIT PROTECTED
- TO-3 PACKAGE

| Model | Characteristics                                                                                                         |
|-------|-------------------------------------------------------------------------------------------------------------------------|
| 150   | Designed specifically for driving synchros, and reactive loads-output protected with rectifiers for inductive kickback. |
| 160   | General purpose operational amplifier for audio applications and programmable power supplies.                           |
| 170   | Commercial grade of Model 160.                                                                                          |
| 180   | High voltage operational amplifier.                                                                                     |

**M. S. Kennedy Corp.****Pickard Drive, Syracuse, New York 13211****Tel. 315-455-7077**

(00150-1)X

# Electrical Specifications

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## PARAMETER

## UNITS

150

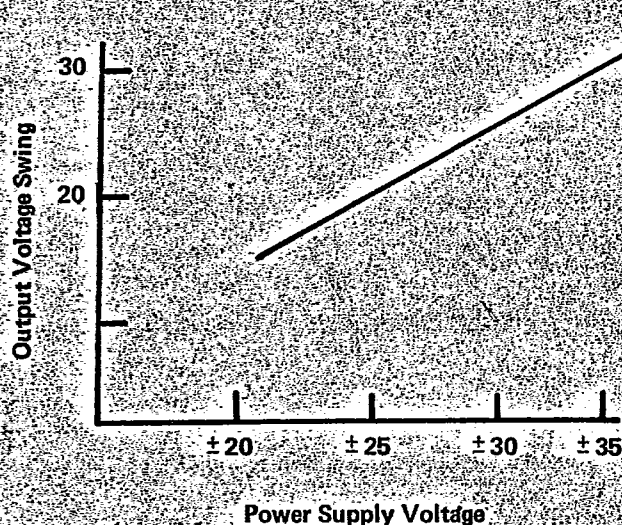
160

170

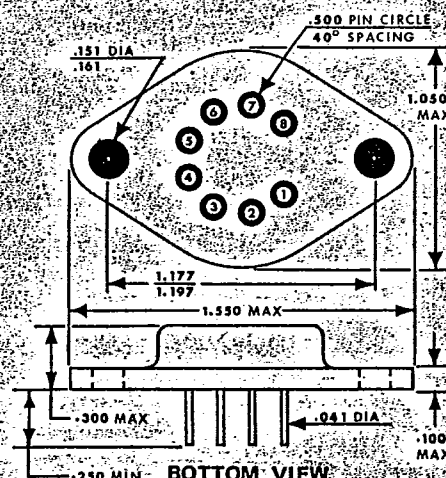
180

|                              |              |                             |             |             |             |
|------------------------------|--------------|-----------------------------|-------------|-------------|-------------|
| VOLTAGE GAIN                 | V/V          | 70,000                      | 100,000     | 50,000      | 70,000      |
| FULL POWER OUTPUT            | kHz          | 10                          | 20          | 20          | 10          |
| UNITY GAIN BANDWIDTH         | MHz          | 1.0                         | 1.0         | 1.0         | 1.0         |
| SLEW RATE                    | V/ $\mu$ Sec | 2.0                         | 2.0         | 2.0         | 2.0         |
| RATED OUTPUT VOLTAGE         | Volts        | $\pm 20$                    | $\pm 22$    | $\pm 20$    | $\pm 30$    |
| RATED OUTPUT CURRENT         | Amps         | 1.0                         | 1.0         | .75         | .75         |
| INPUT BIAS CURRENT           | nAmps        | 40                          | 20          | 70          | 20          |
| INPUT OFFSET CURRENT         | nAmps        | 10                          | 3           | 20          | 5           |
| INPUT OFFSET VOLTAGE         | mV           | $\pm 10$ adjustable to zero |             |             |             |
| DIFFERENTIAL INPUT IMPEDANCE | Mohms        | 10                          | 10          | 10          | 10          |
| COMMON MODE INPUT IMPEDANCE  | Mohms        | 250                         | 250         | 250         | 250         |
| COMMON MODE VOLTAGE          | Volts        | 20                          | 22          | 20          | 25          |
| COMMON MODE REJECTION RATIO  | dB           | 100                         | 100         | 100         | 100         |
| POWER SUPPLY VOLTAGE         | Volts        | $\pm 28$                    | $\pm 28$    | $\pm 24$    | $\pm 36$    |
| QUIESCENT CURRENT            | mA           | 25                          | 25          | 30          | 25          |
| OPERATING TEMPERATURE RANGE  | C $^{\circ}$ | -55 to +125                 | -55 to +125 | 0 to +70    | -55 to +125 |
| STORAGE TEMPERATURE RANGE    | C $^{\circ}$ | -55 to +150                 | -55 to +150 | -55 to +150 | -55 to +150 |

## OUTPUT VOLTAGE VS POWER SUPPLY

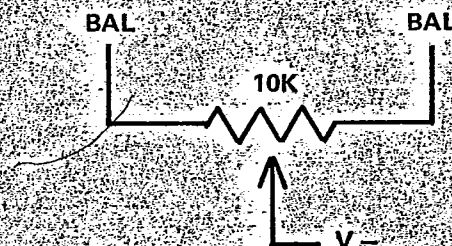


## LINE DRAWING



## Pin Assignment

|         |           |          |         |
|---------|-----------|----------|---------|
| 1. + IN | 3. - Vcc  | 5. - Vcc | 7. BAL  |
| 2. BAL  | 4. OUTPUT | 6. + Vcc | 8. - IN |



## MODELS:

150

160

170

180

## PRICES:

1-9  
10-24\$69.00  
\$66.00\$69.00  
\$66.00\$59.00  
\$56.00\$75.00  
\$71.00

00150-2x