



## ELECTRONIC TUBE REFERENCE

# M7GT

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

**2 SECTIONS**

CONSTRUCTION

**BEAMPOWER-RECTIFIER**

Beam-power output tube intended for audio-frequency power amplification, providing useful loudspeaker-driving output in receiving and general amplifier equipment.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 8A0               | BASE PINS            | 8             |
| NOMINAL HEATER      | 117 V / 90 mA     | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Dissimilar    |

## SECTION RATINGS

|                                                    |        |
|----------------------------------------------------|--------|
| <b>SECTION1</b> Rectifier                          |        |
| PEAK INVERSE VOLTAGE                               | 350 V  |
| NOMINAL OUTPUT CURRENT                             | 75 mA  |
| PEAK FORWARD CURRENT                               | 450 mA |
| FORWARD VOLTAGE DROP                               | 16 V   |
| MAXIMUM HEATER-CATHODE VOLTAGE                     | 175 V  |
| <i>Half-wave rectifier section of 117L7/M7-GT.</i> |        |

| SECTION2 Beam Power                                 |                |
|-----------------------------------------------------|----------------|
| PLATE RESISTANCE                                    | 13000 $\Omega$ |
| TRANSCONDUCTANCE                                    | 0.0053 S       |
| MAXIMUM PLATE VOLTAGE                               | 117 V          |
| MAXIMUM SCREEN VOLTAGE                              | 117 V          |
| MAXIMUM PLATE DISSIPATION                           | 6 W            |
| MAXIMUM SCREEN DISSIPATION                          | 1 W            |
| <i>Beam-power amplifier section of 117L7/M7-GT.</i> |                |

Combines a half-wave rectifier and beam power amplifier in the same envelope for AC-DC service from a 117-volt line, including three-way portable receivers.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 195X General Electric Essential Characteristics

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

## Section 1 · Rectifier

| OTHER                |                 |                  |
|----------------------|-----------------|------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE |
| DC output current    | 75 mA           | HalfWave         |
| Peak inverse voltage | 350 V           | HalfWave         |
| RMS supply voltage   | 117 V           | HalfWave         |
| Peak current         | 450 mA          | HalfWave         |

| CHARACTERISTIC    |                 |                  |
|-------------------|-----------------|------------------|
| PARAMETER         | PUBLISHED VALUE | CONDITION / NOTE |
| Tube voltage drop | 16 V            | At150mADC        |

## 195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

## Section 2 · Beam Power

| OTHER               |                 |                  |
|---------------------|-----------------|------------------|
| PARAMETER           | PUBLISHED VALUE | CONDITION / NOTE |
| Plate voltage       | 105 V           | ClassA           |
| Screen-grid voltage | 105 V           | ClassA           |
| Grid voltage        | -5.2 V          | ClassA           |
| Plate current       | 43 mA           | ClassA           |
| Screen-grid current | 4 mA            | ClassA           |
| Load resistance     | 4000 ohm        | ClassA           |
| Power output        | 0.85 W          | ClassA           |

| CHARACTERISTIC   |                 |                  |
|------------------|-----------------|------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE |
| Plate resistance | 17000 ohm       | ClassA           |

| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE |
|------------------|-----------------|------------------|
| Transconductance | 5300 $\mu$ S    | ClassA           |



SOURCE DATA APPENDIX

## SOURCE OPERATING CONDITIONS

# 1961 Tung Sol

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1961 TUNG SOL

### Section 1 · Rectifier

| CHARACTERISTIC                    |                 |                  |
|-----------------------------------|-----------------|------------------|
| PARAMETER                         | PUBLISHED VALUE | CONDITION / NOTE |
| Average Characteristics Nz Volts  | 90 mA           | —                |
| Limits Of Supplied Voltage N7f    | 12 V            | —                |
| Maximum Dc Heater-Cathode Voltage | 175 V           | —                |

| OTHER                           |                 |                  |
|---------------------------------|-----------------|------------------|
| PARAMETER                       | PUBLISHED VALUE | CONDITION / NOTE |
| Peak Inverse Voltage            | 350 V           | —                |
| Steady-State Peak Plate Current | 450 mA          | —                |
| Ef =                            | 117 V           | —                |
| Einput =                        | 117 V           | —                |

## 1961 TUNG SOL

### Section 2 · Beam Power

| OTHER             |                 |                  |
|-------------------|-----------------|------------------|
| PARAMETER         | PUBLISHED VALUE | CONDITION / NOTE |
| Plate Diss{Pation | 6 W             | —                |
| E $\phi$ =        | 117 V           | —                |
| $\phi$ =          | 117 V           | —                |
| = E., =           | 105 V           | —                |

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|-----------|-----------------|------------------|
| E Egjg =  | 3.67 V          | —                |