

# AMPEREX TUBE TYPE 6076

The 6076 is a four-electrode, forced air cooled tube designed for use as an R.F. power amplifier, modulator and frequency multiplier. The anode is capable of dissipating 3 kilowatts. The cathode is a thoriated tungsten filament. Maximum ratings apply up to 220 megacycles.

## GENERAL CHARACTERISTICS

### ELECTRICAL DATA

|                                          |                  |
|------------------------------------------|------------------|
| Filament voltage                         | 6.3 volts        |
| Filament current                         | 32.5 amps        |
| Amplification factor                     | 8.5              |
| (G <sub>2</sub> -G <sub>1</sub> , Mu)    |                  |
| Transconductance (Ib=2 amps)             | 19,000 micromhos |
| Direct Inter-electrode Capacitances      |                  |
| Input                                    | 0.35 $\mu$ f     |
| Output                                   | 23.5 $\mu$ f     |
| Plate to Filament                        | 8.4 $\mu$ f      |
| Peak cathode current <sup>1</sup> (max.) | 7 amps           |

### MECHANICAL DATA

|                         |                            |
|-------------------------|----------------------------|
| Max. overall dimensions |                            |
| Length                  | 6 3/4 inches               |
| Diameter                | 3 3/4 inches               |
| Mounting position       | Vertical, anode up or down |
| Control Grid Connection | See note <sup>1</sup>      |

### AIR COOLING DATA

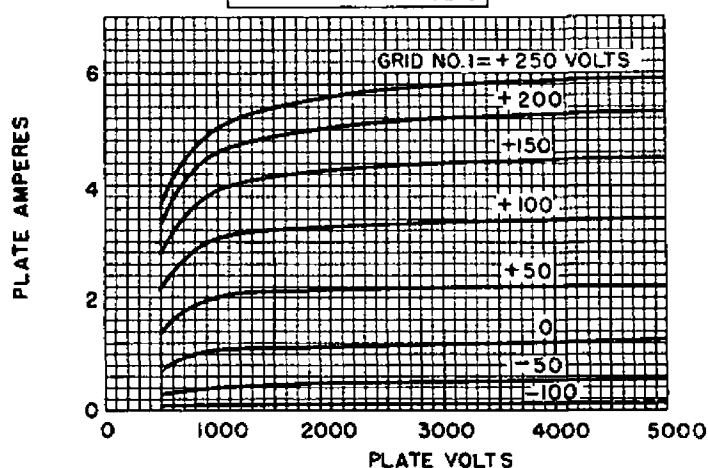
| Plate dissipation (kw) | Height above sea level (feet) | Inlet air temp. ( $^{\circ}$ C) | Min. Air flow (cu. ft./min.) | Inlet pressure (inches of water) |
|------------------------|-------------------------------|---------------------------------|------------------------------|----------------------------------|
| 1                      | 0                             | 35                              | 65                           | 0.4                              |
| 1                      | 0                             | 45                              | 80                           | 0.6                              |
| 1                      | 5,000                         | 35                              | 80                           | 0.5                              |
| 1                      | 10,000                        | 25                              | 80                           | 0.5                              |
| 2.5                    | 0                             | 35                              | 160                          | 2.4                              |
| 2.5                    | 0                             | 45                              | 190                          | 3.4                              |
| 2.5                    | 5,000                         | 35                              | 190                          | 2.9                              |
| 2.5                    | 10,000                        | 25                              | 205                          | 3.0                              |
| 3                      | 0                             | 35                              | 200                          | 3.8                              |

|                                    |                  |
|------------------------------------|------------------|
| Max. Bulb Temperature              | 250 $^{\circ}$ C |
| Max. Seal Temperature <sup>1</sup> | 180 $^{\circ}$ C |

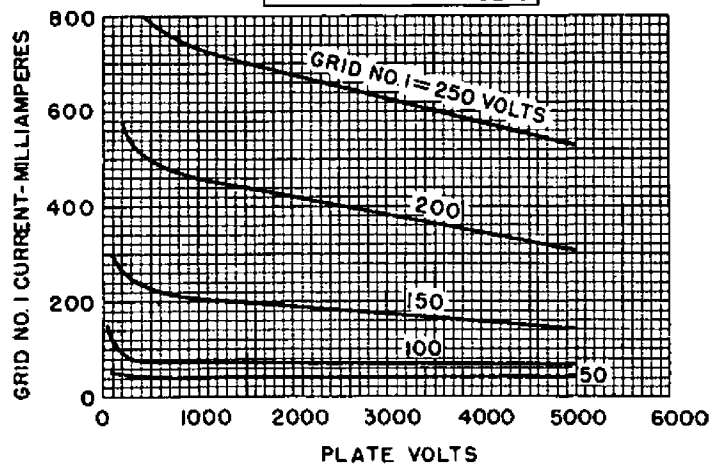
### ACCESSORIES

|                      |                  |
|----------------------|------------------|
| Grid Connector       | Amperex #S-3706  |
| Filament Connector   | Amperex #S-3707  |
| Air Flow Chamber     | Amperex #S-11882 |
| Net Weight (approx.) | 5 lbs.           |

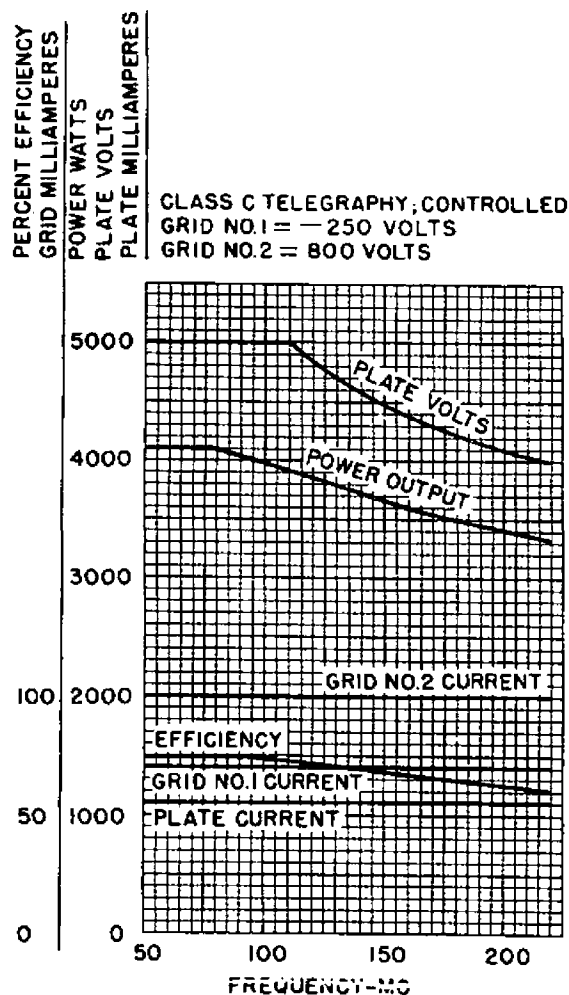
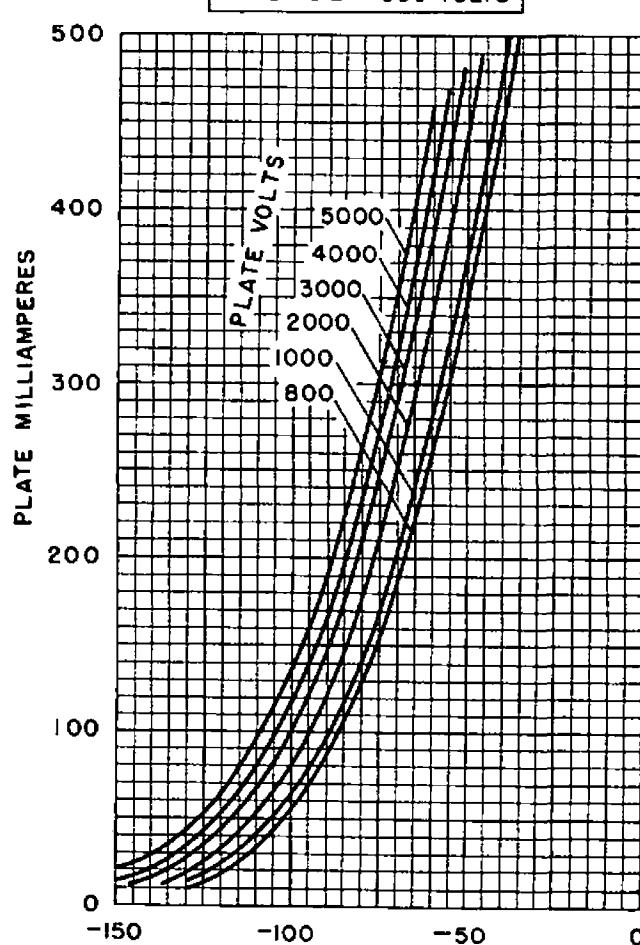
GRID NO. 2 = 800 VOLTS



GRID NO. 2 = 800 VOLTS

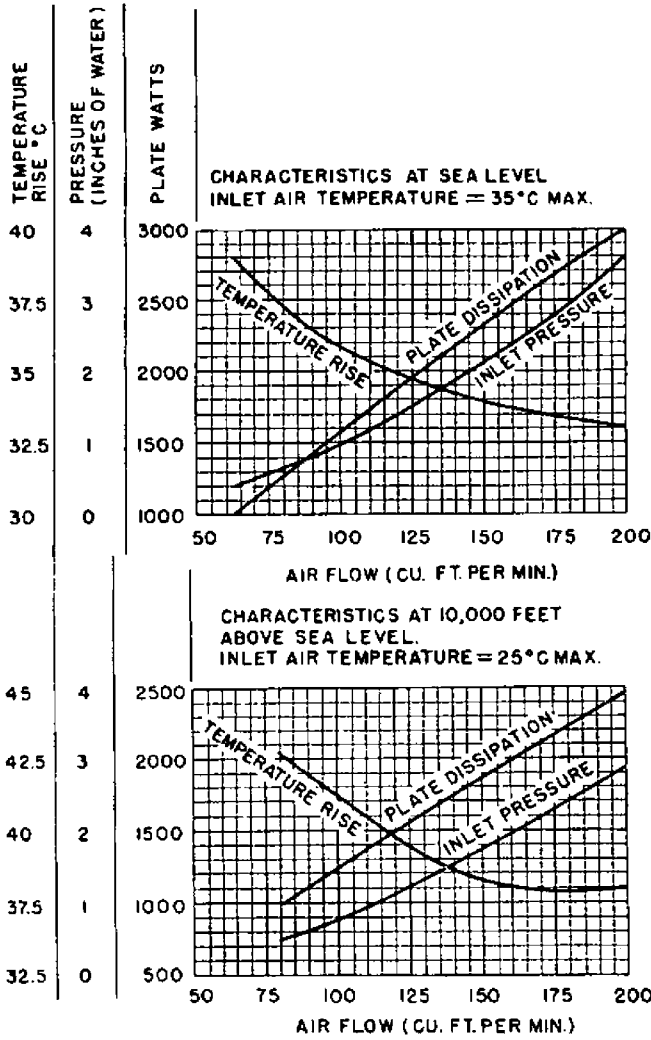


GRID NO. 2 = 800 VOLTS

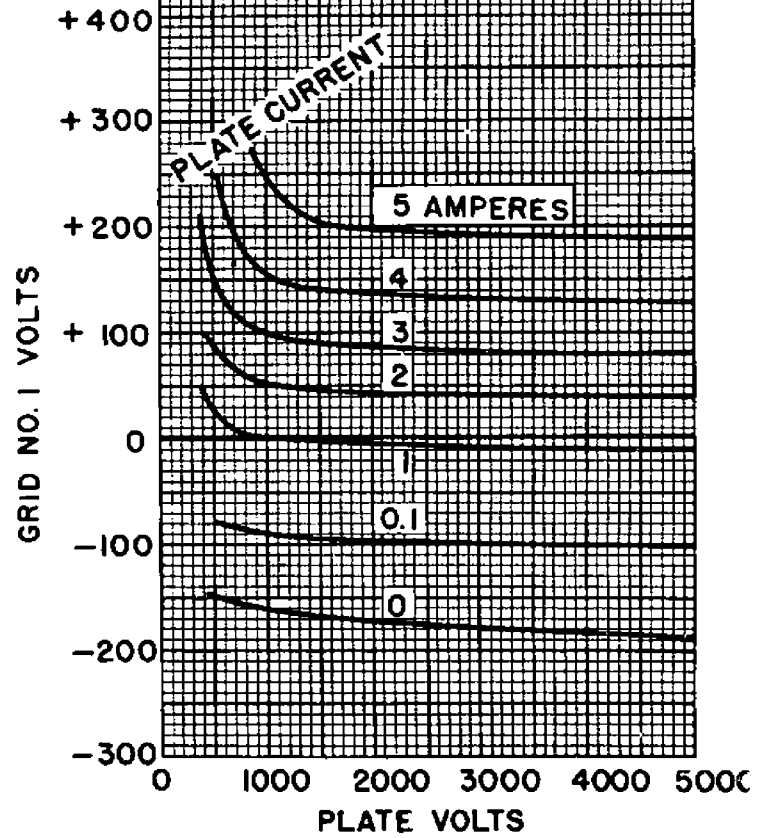




6076

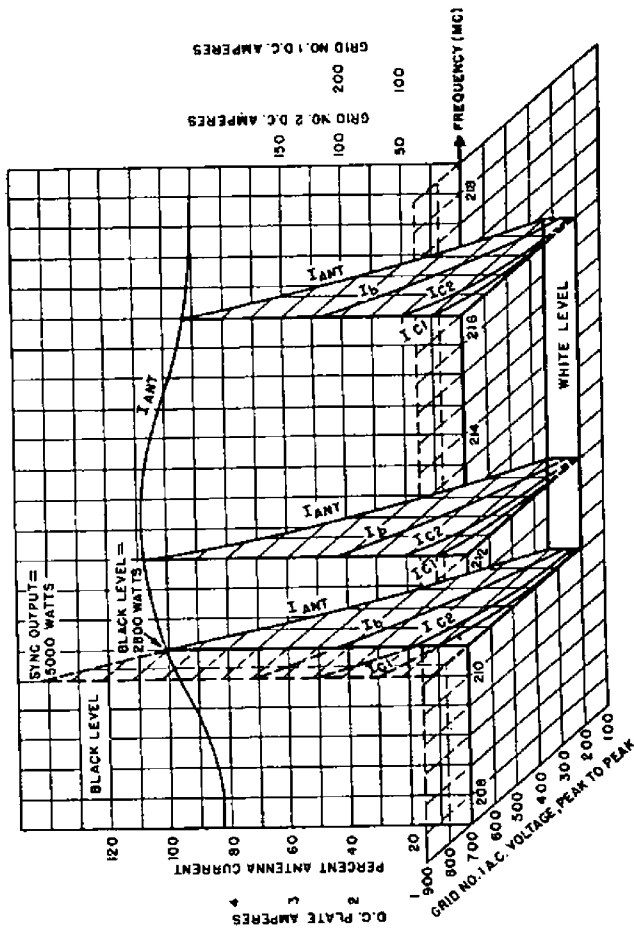


CONSTANT PLATE CURRENT  
GRID NO. 2 = 800 VOLTS



GRID MODULATED M.F. CLASS B AMPLIFIER-T.V. SERVICE (2 TUBES, PUSH-PULL)

PLATE VOLTAGE = 4000 VOLTS  
GRID NO. 2 VOLTAGE = 800 VOLTS  
GRID NO. 1 BIAS = 150 VOLTS



GRID MODULATED M.F. CLASS C AMPLIFIER-T.V. SERVICE (2 TUBES, PUSH-PULL)

PLATE VOLTAGE = 4000 VOLTS  
GRID NO. 2 VOLTAGE = 800 VOLTS  
GRID NO. 1 A.C. VOLTAGE = 850 VOLTS, PEAK TO PEAK

