

# 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 (G <sub>m</sub> , Mu)	8.5
Transconductance (Ib=2 amps)	19,000 micromhos
Direct Interelectrode Capacitances	
Input	0.35 μf
Output	23.5 μf
Plate to Filament	8.4 μf
Peak cathode current <sup>1</sup> (max.)	7 amps

### MECHANICAL DATA

Max. overall dimensions	
Length	6 7/8 inches
Diameter	3 3/4 inches
Mounting position	Vertical, anode up or down
Control Grid Connection	See note <sup>1</sup>

### AIR COOLING DATA

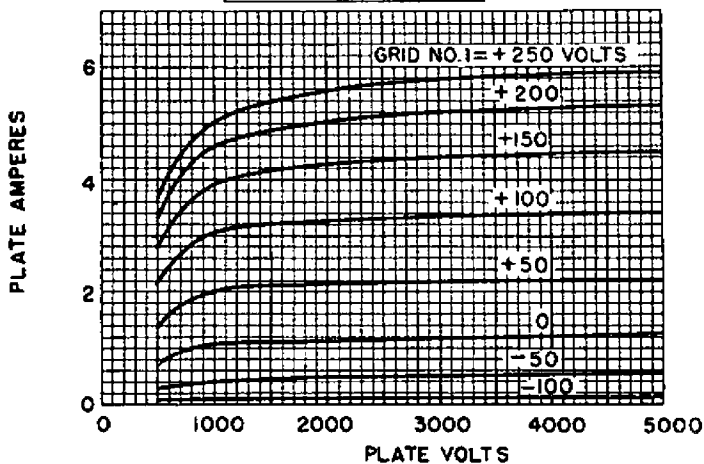
Plate dissipation (kw)	Height above sea level (feet)	Inlet air temp. (° C)	Min. Air flow (cu. ft./min.)	Inlet pressure (inches of water)
1	0	35	65	0.4
1	0	45	80	0.6
1	5,000	35	80	0.5
1	10,000	25	80	0.5
2.5	0	35	160	2.4
2.5	0	45	190	3.4
2.5	5,000	35	190	2.9
2.5	10,000	25	205	3.0
3	0	35	200	3.8

Max. Bulb Temperature	250° C
Max. Seal Temperature <sup>1</sup>	180° C

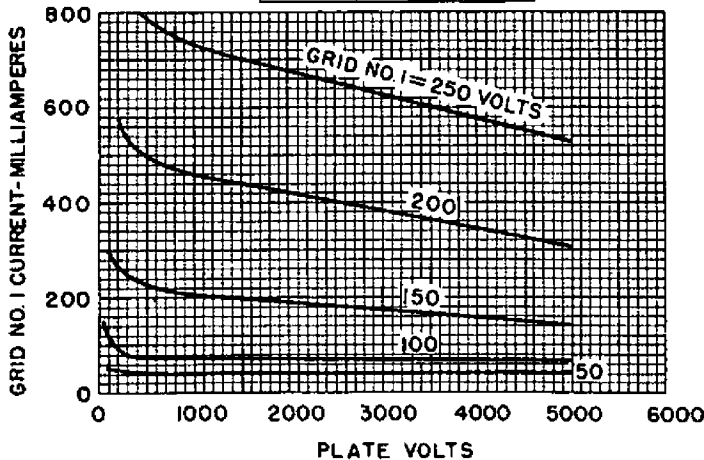
### ACCESSORIES

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

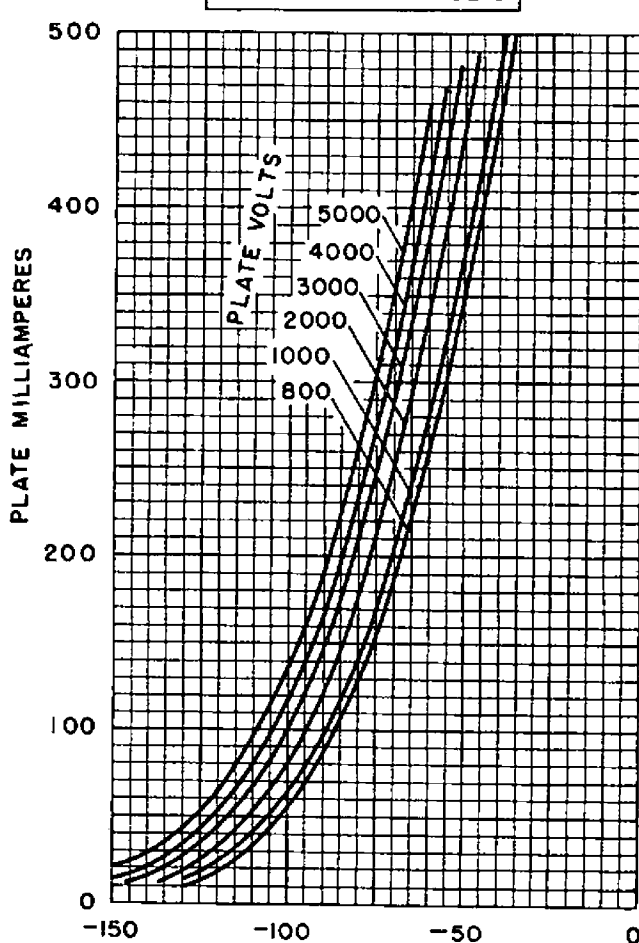
GRID NO. 2 = 800 VOLTS



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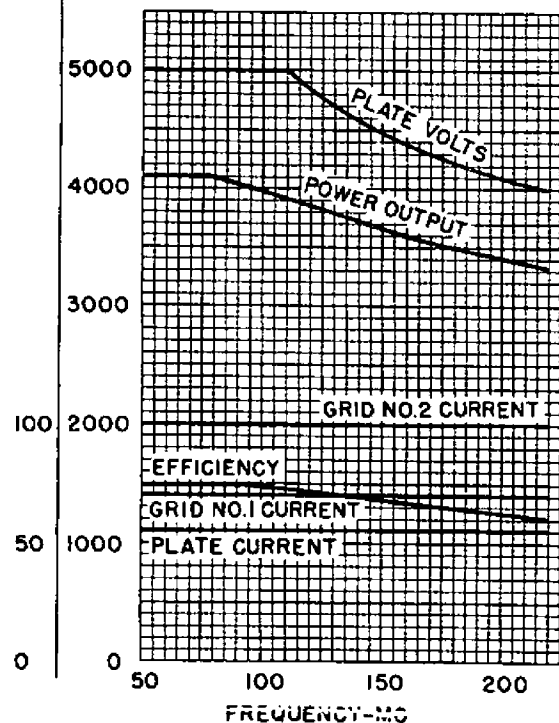


GRID NO. 2 = 800 VOLTS



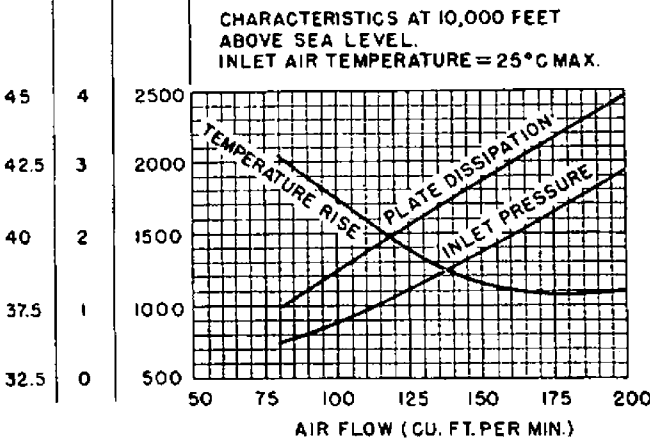
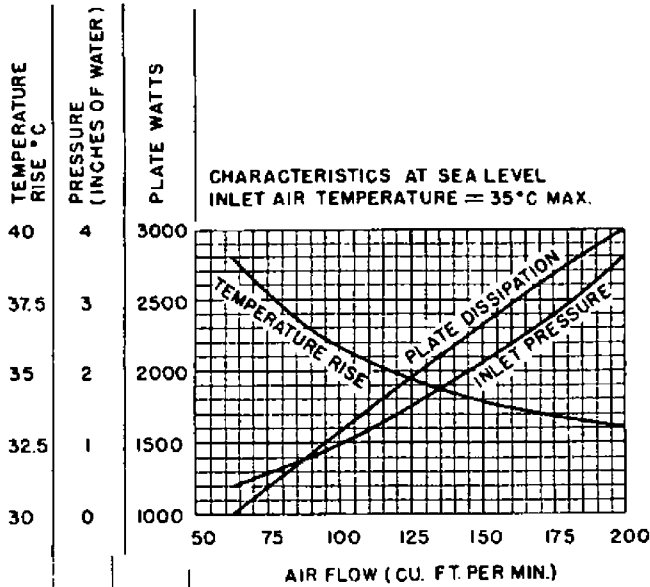
PERCENT EFFICIENCY  
GRID MILLIAMPERES  
POWER WATTS  
PLATE VOLTS  
PLATE MILLIAMPERES

CLASS C TELEGRAPHY, CONTROLLED  
GRID NO. 1 = -250 VOLTS  
GRID NO. 2 = 800 VOLTS

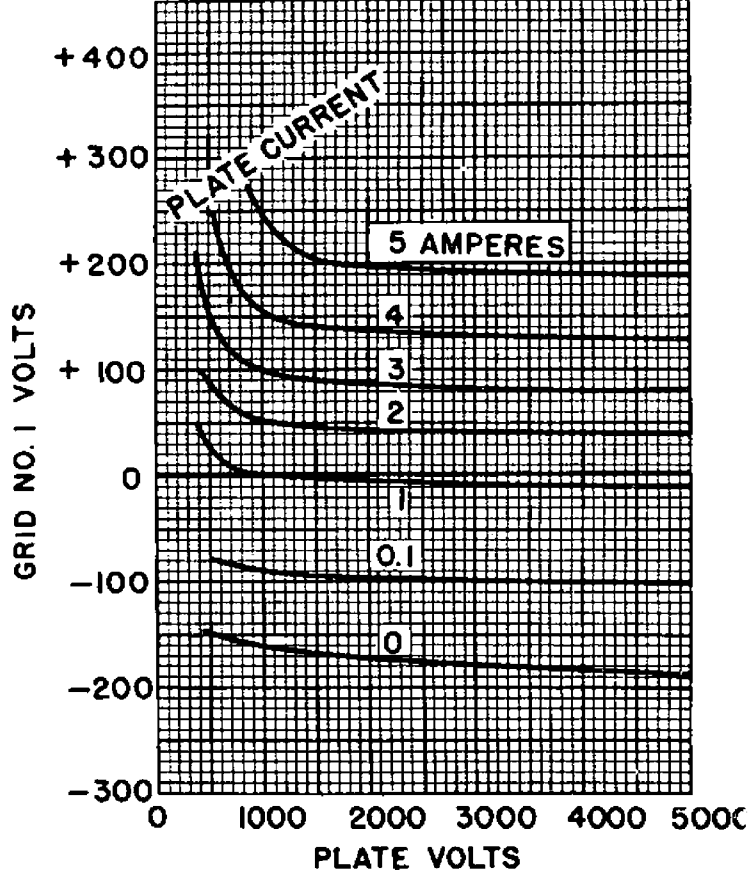




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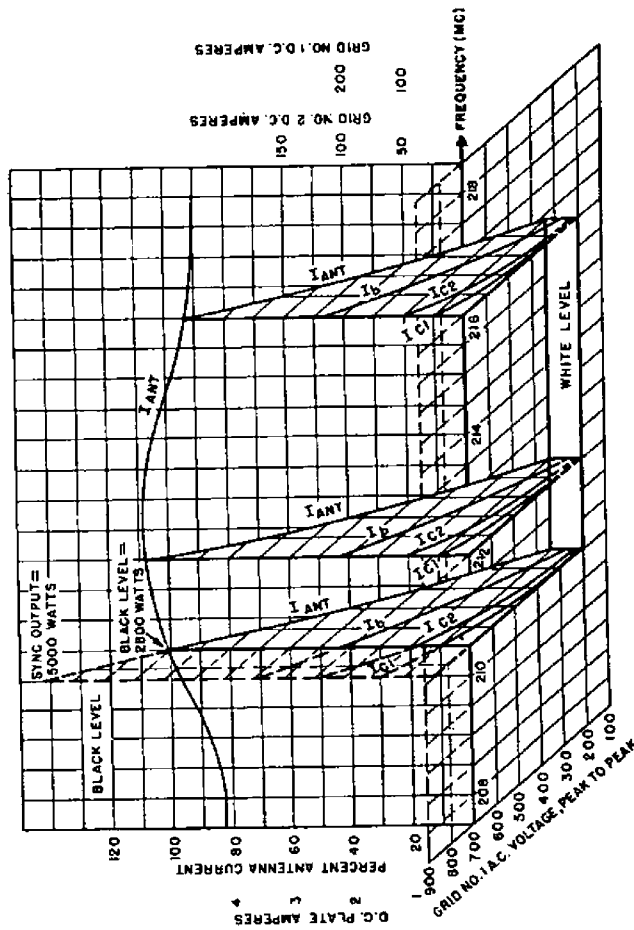


CONSTANT PLATE CURRENT  
GRID NO. 2 = 800 VOLTS



GRID MODULATED M.F. CLASS B AMPLIFIER-TV 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-TV 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

