

Sept. 18, 1953

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_m , μ)	19,000 micromhos
Transconductance (lb=2 amps)	
Direct Inter-electrode Capacitances	
Input	0.35 μ f
Output	23.5 μ f
Plate to Filament	8.4 μ f
Peak cathode current ¹ (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 ¹

AIR COOLING DATA

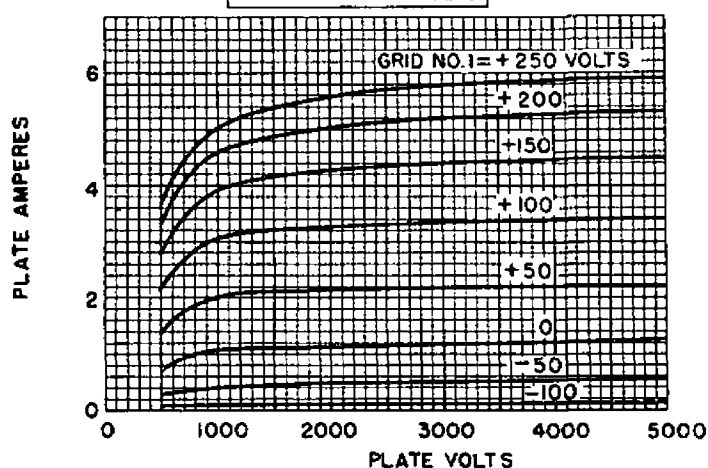
Plate dissipation (kw)	Height above sea level (feet)	Inlet air temp. ($^{\circ}$ C)	Min. Air flow (cu. ft./min.)	Inlet pressure (inches of water)
1	0	35	65	0.4
1	0	45	80	0.6
1	5,000	35	80	0.5
1	10,000	25	80	0.5
2.5	0	35	160	2.4
2.5	0	45	190	3.4
2.5	5,000	35	190	2.9
2.5	10,000	25	205	3.0
3	0	35	200	3.8

Max. Bulb Temperature	250 $^{\circ}$ C
Max. Seal Temperature ¹	180 $^{\circ}$ C

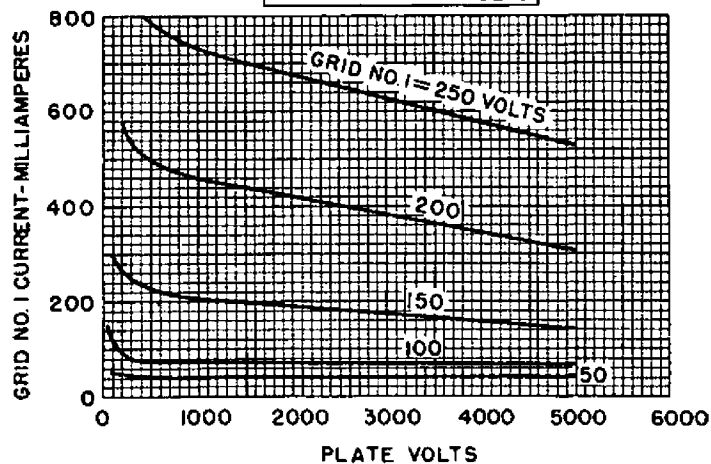
ACCESSORIES

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

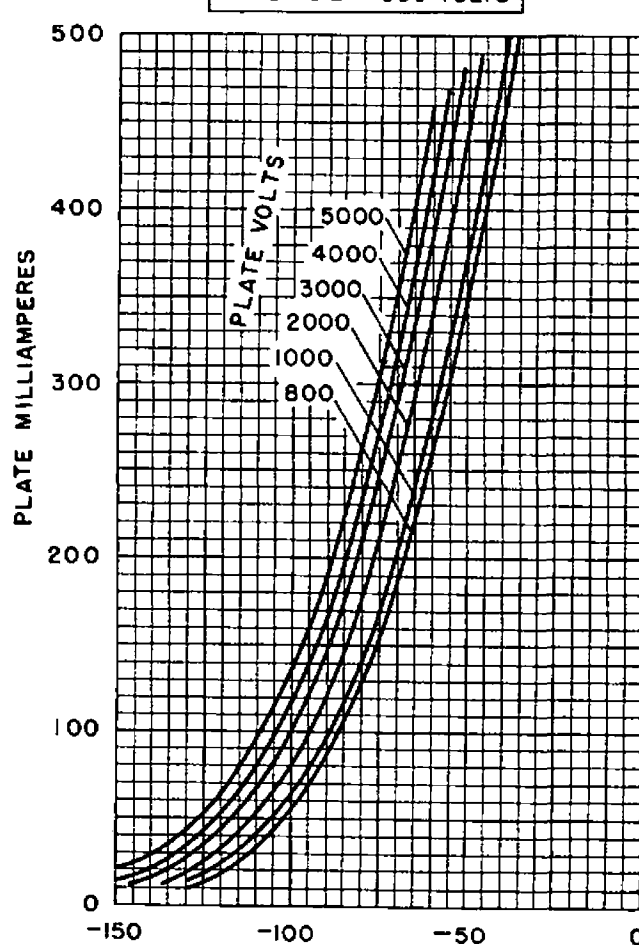
GRID NO. 2 = 800 VOLTS



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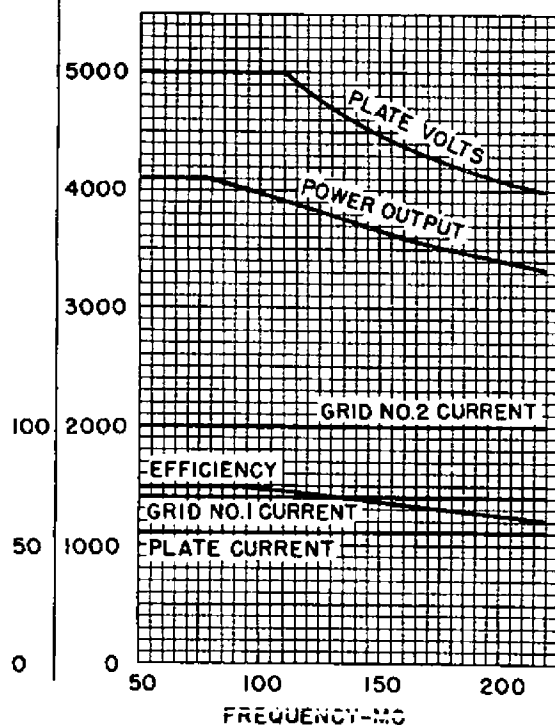


GRID NO. 2 = 800 VOLTS

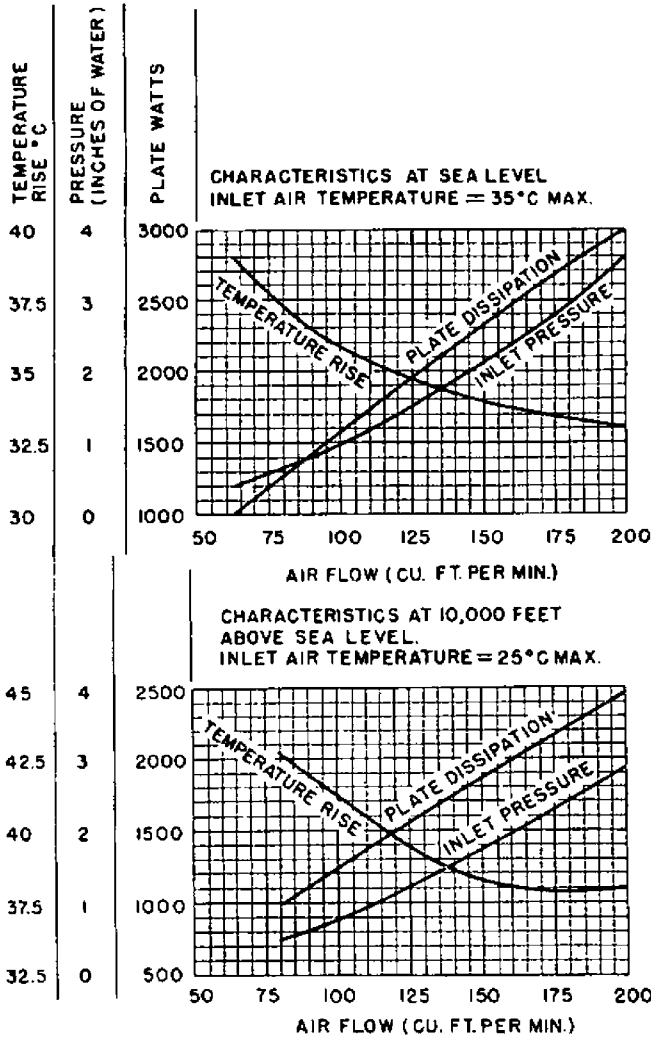


PERCENT EFFICIENCY
GRID MILLIAMPERES
POWER WATTS
PLATE VOLTS
PLATE MILLIAMPERES

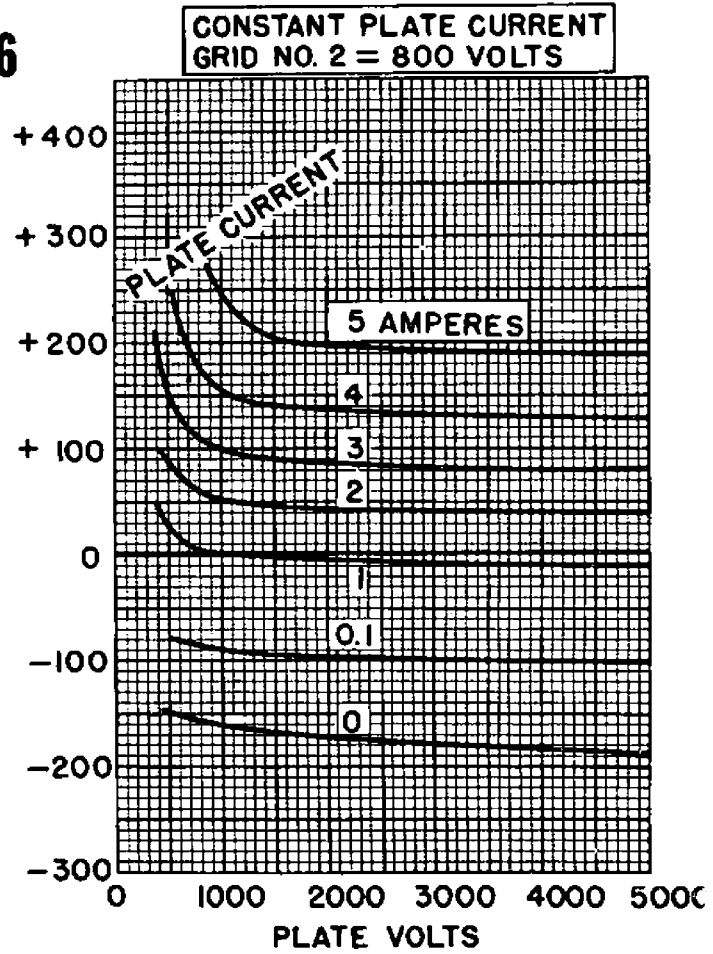
CLASS C TELEGRAPHY, CONTROLLED
GRID NO. 1 = -250 VOLTS
GRID NO. 2 = 800 VOLTS



6076

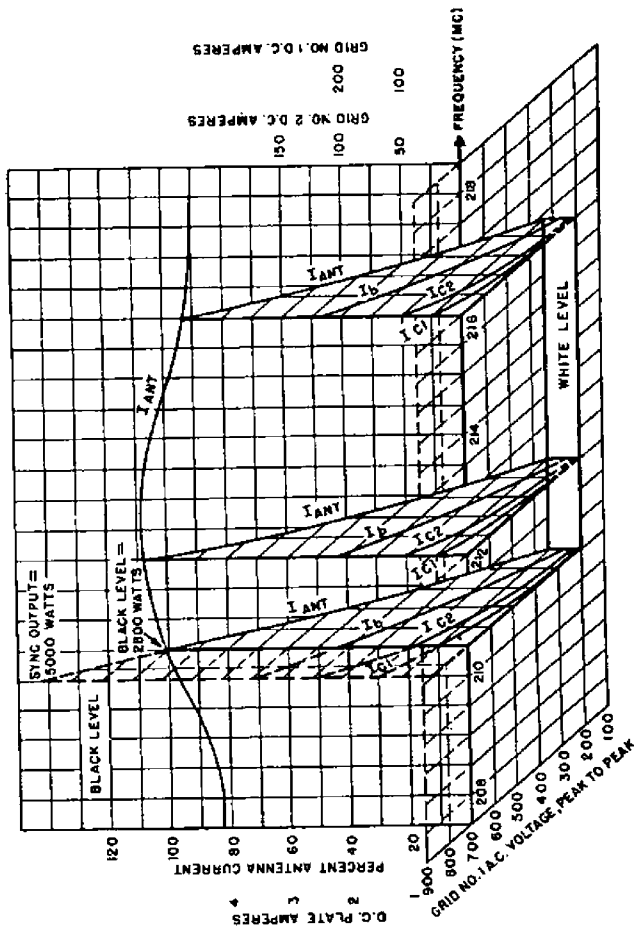


GRID NO. 1 VOLTS



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

