

CHARACTERISTICS AND TYPICAL OPERATION

CONVERTER SERVICE†

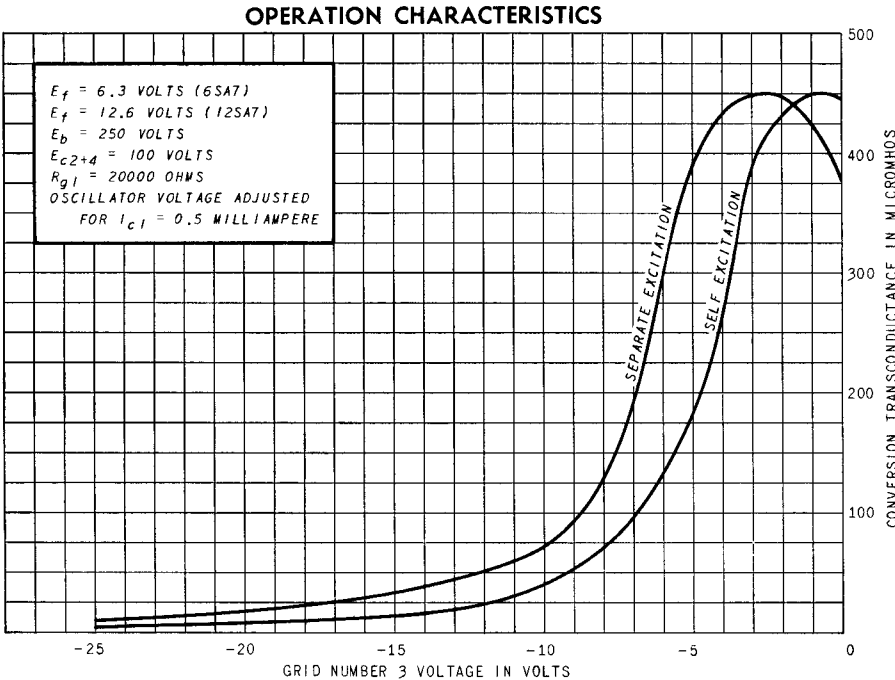
Plate Voltage	100	250	Volts
Screen Voltage	100	100	Volts
Grid-Number 3 Voltage	—2	—2	Volts
Grid-Number 1 Voltage, RMS	10	10	Volts
Grid-Number 1 Resistance	20000	20000	Ohms
Plate Resistance, approximate	0.5	1.0	Megohms
Conversion Transconductance	425	450	Micromhos
Plate Current	3.3	3.5	Milliamperes
Screen Current	8.5	8.5	Milliamperes
Grid-Number 1 Current	0.5	0.5	Milliamperes
Cathode Current	12.3	12.5	Milliamperes
Grid-Number 3 Voltage, approximate, $G_c=10$ Micromhos	—25	—25	Volts
Grid-Number 3 Voltage, approximate, $G_c=100$ Micromhos	—9	—9	Volts

OSCILLATOR CHARACTERISTICS (NOT OSCILLATING)

Plate Voltage	100	Volts
Screen—Connected to Plate		
Grid-Number 3 Voltage	0	Volts
Grid-Number 1 Voltage	0	Volts
Amplification Factor‡	14	
Transconductance‡	4500	Micromhos
Cathode Current	25	Milliamperes
Grid-Number 1 Voltage, approximate, $I_b=10$ Microamperes	—14	Volts

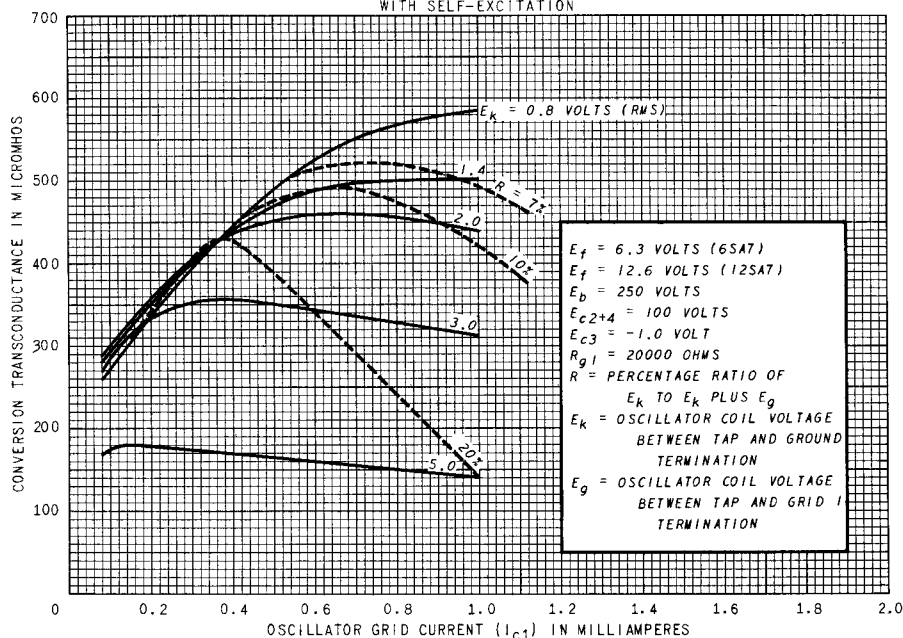
† Characteristics shown are obtained in the standard RTMA conversion conductance test set which uses separate excitation. The characteristics under these conditions correspond very closely with those obtained in a self-excited oscillatory circuit operating with zero bias.

‡ Between grid number 1 and grids number 2 and 4 connected to plate.



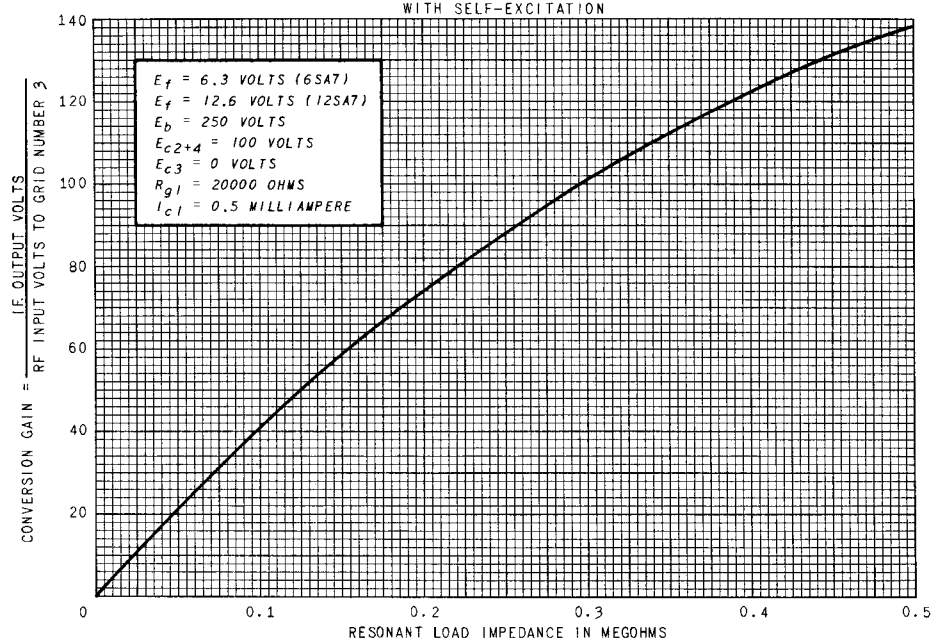
OPERATION CHARACTERISTICS

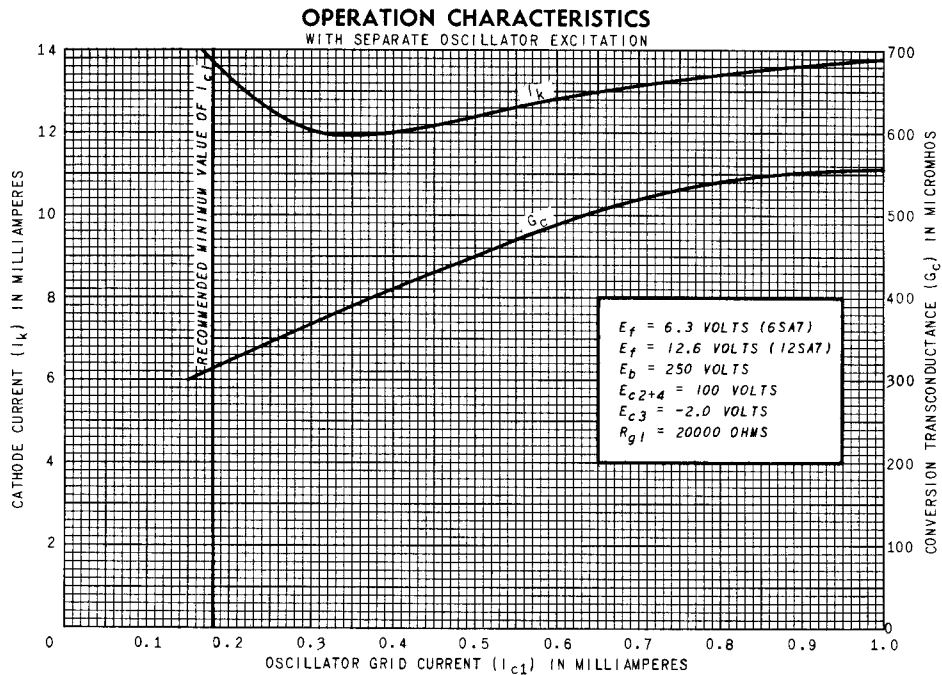
WITH SELF-EXCITATION



OPERATION CHARACTERISTICS

WITH SELF-EXCITATION





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