Rogers Electronic Tubes & Components

17EW8

	able triode for cillating mixer	use as R.I	. amplifier and self-
Mechanical Data			
Cathode	coated, u	unipotentia	11
Base	E 9-1		
Bulb	T 6 ¹ /2		
Outline	6-2		
Basing	9A J		
Mounting posit	ion any		
Tube outline	Bottom view of base	Base pir	````
max 7/8"		1	Plate
		2	Grid Triode no. 2
	9	\mathcal{O}	Cathode)
	8	(2) 4 5	Heater
2 3/6" "+3/32" 1 15/16	——————————————————————————————————————	/	Heater
6 7 4 7		3 6	Plate
9/16" + 3/16		7	Grid Triode no.1
	<u>s</u>	<i>4</i>) 8	Cathode
		9	Internal shield
<u> Heater Data</u>			
Heater voltage	!		17.5 volts
Heater current	,		150 mamps
Direct interelec	trode capacitanc	<u>es</u> (each sy	stem)
Plate to grid			1.5 μμϜ
Plate to catho	de		0.18 μμϜ
Plate to catho	de, heater and sl	hield	1.2 μμF
Plate to catho	de, heater and s	hield ≠	1.9 µµF
Grid to cathod	le, heater and sh	ield	3 μμ F
—————————————————————————————————————	റമി ഒപ്പിപ് ബർ+്	intornal	liameter of 0.886"

Direct interelectrode capacitances (continued) Between the triode systems Plate to plate max. 0.04 μμF Plate to plate ≠ max. 0.008 µµF Grid to grid max. 0.003 $\mu\mu F$ Plate triode No.1 to grid triode No.2 max. 0.008 μμF Plate triode No.2 to grid triode No.1 max. 0.008 μμF Plate triode No.1 to cathode triode No.2 max. 0.008 μμF Plate triode No.2 to cathode triode No.1 max. 0.008 μμF Grid triode No.1 to cathode triode No. 2 max. 0.003 μμF Grid triode No.2 to cathode triode No. 1 $max..0.003 \mu \mu F$ Maximum ratings (each section; Design Center Values) 550 volts max. Plate voltage without current Plate voltage 250 volts max. Plate dissipation 2.5 watts max. Plate dissipation of two systems together 4.5 watts max. Cathode current 15 mamps max. Negative grid bias 100 volts max. Grid circuit resistance 1 megohm max. Voltage between cathode and heater 90 volts max. Circuit resistance between heater and cathode 20000 ohms max. Typical characteristics (each section)

Plate voltage	100	170	200	volts
Grid bias	-1.1 ⁰)	- 1.5	-2.1	volts
Plate current	4.5	10	10	mamps
Transconductance	4600	6200	5800	micromhos
Amplification factor	50	50	48	

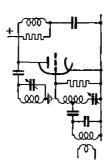
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[≠] With external shield with internal diameter of 0.886"

O)In this case grid current may occur. If this is not permissible a condition with a bias of -1.5 volts should be chosen.

Operating characteristics a (triode system No.1)	s R.F.	amplifier	in FM/AM	receivers
Supply voltage	170	170	100	volts
Plate series resistor	1300	1500	1500	ohms
Plate voltage	160	155	92	volts
Cathode resistor	330	160	160	ohms
Negative grid bias	-2	-1.4	-0.85	volts
Plate current	6	8.7	5.2	mamps
Transconductance	4700	6000	5200	micromhos
Internal resistance	10500	8400	10000	ohms
Input resistance at 100 Mc	8000	6000	7000	ohms
Equivalent noise resistance	650	500	580	ohms

Operating characteristics as self-oscillating mixer in FM/AM receivers (triode system No.2)

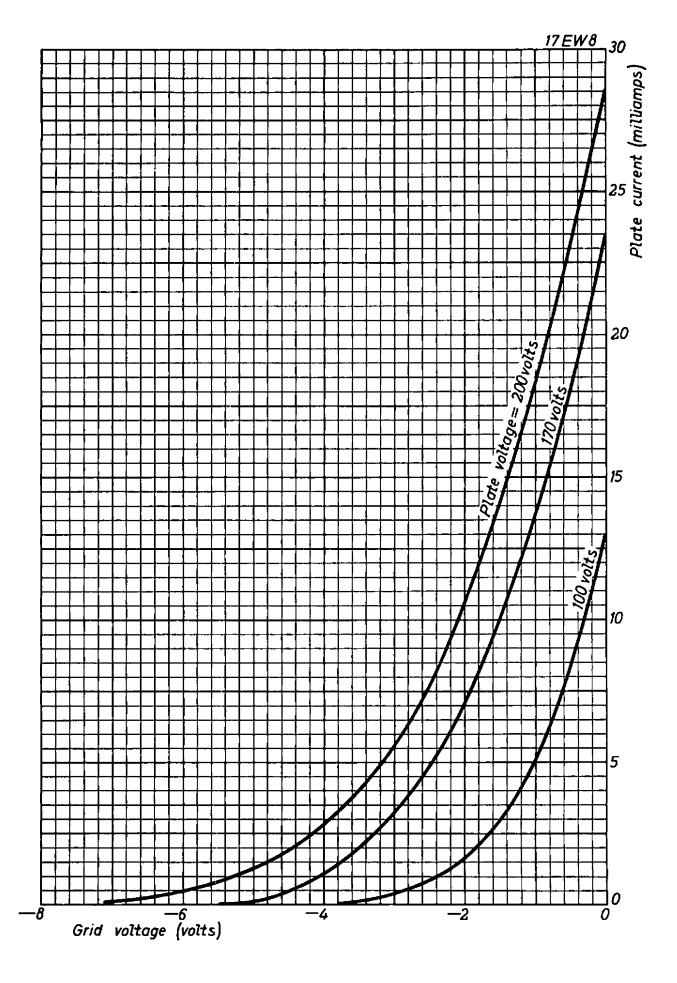


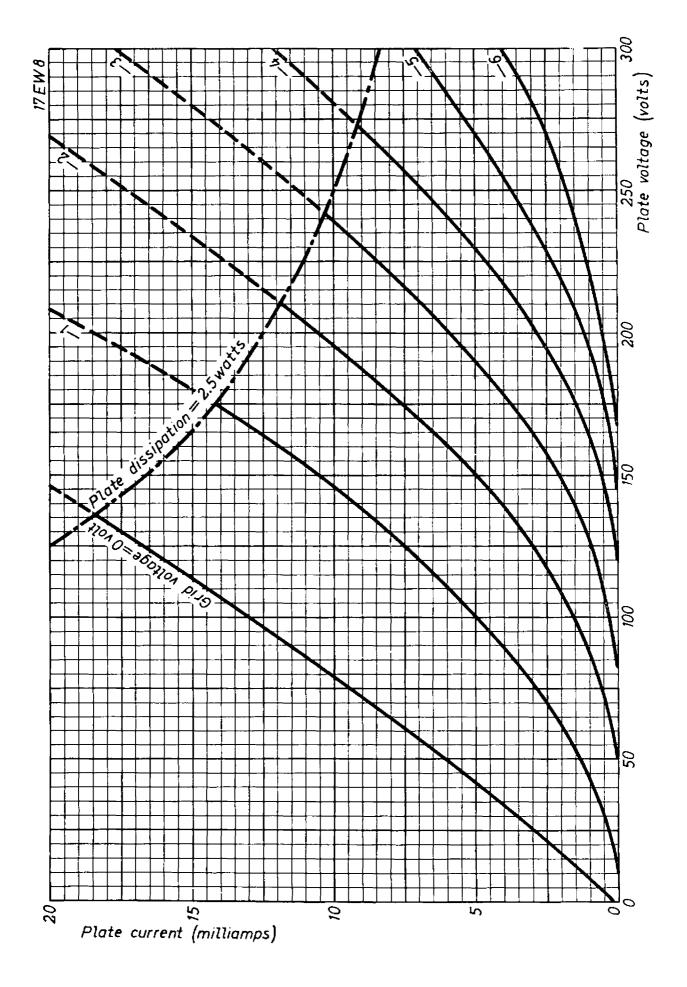
Supply voltage	100	170	200	volts
Plate series resistor	4700	4700	8200	ohms
Grid leak	1	1	1	megohm +)
Oscillator voltage	1.8	2.8	2.8	volts (rms)
Plate current	2.2	4.8	5.2	mamps
Conversion conductance	1700	2200	2300	micromhos
Internal resistance	20000	16000	15000	ohms
Input resistance at 100	Mc -	15000	••	ohms

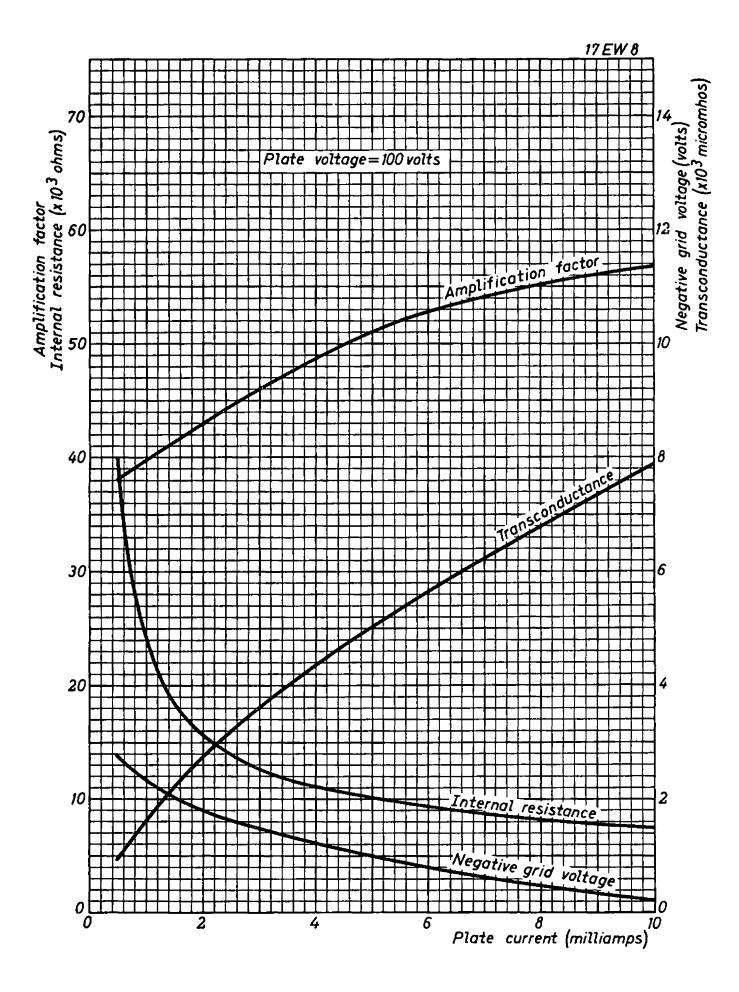
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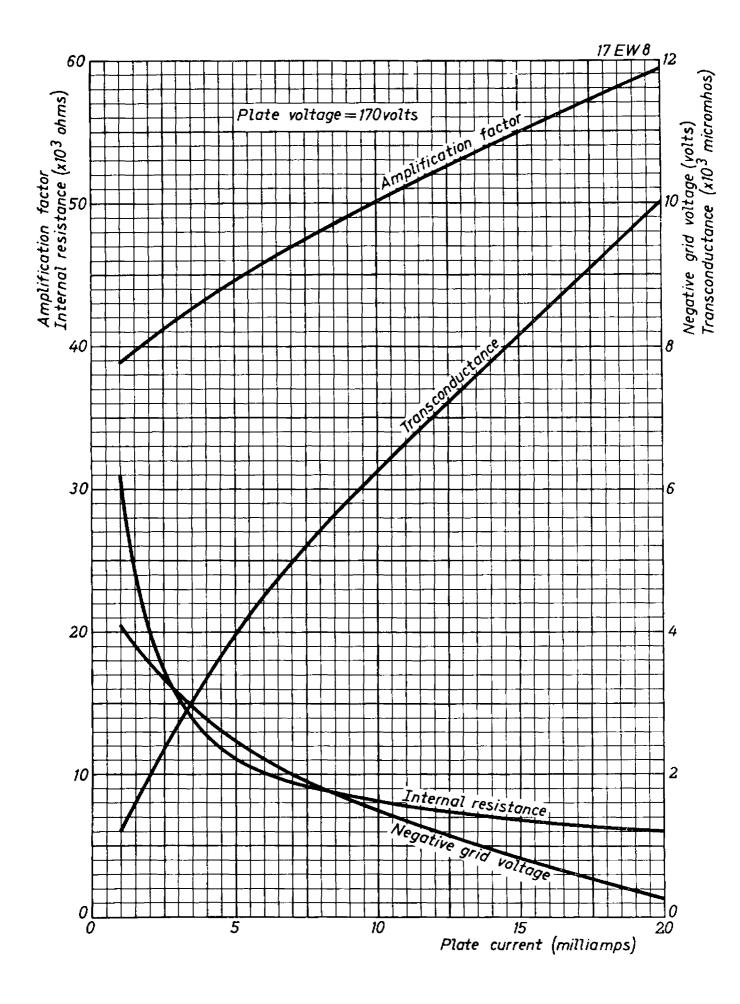
⁺⁾ At this value of grid leak squegging is prevented by feed-back, which normally is applied in order to compensate for the internal resistance

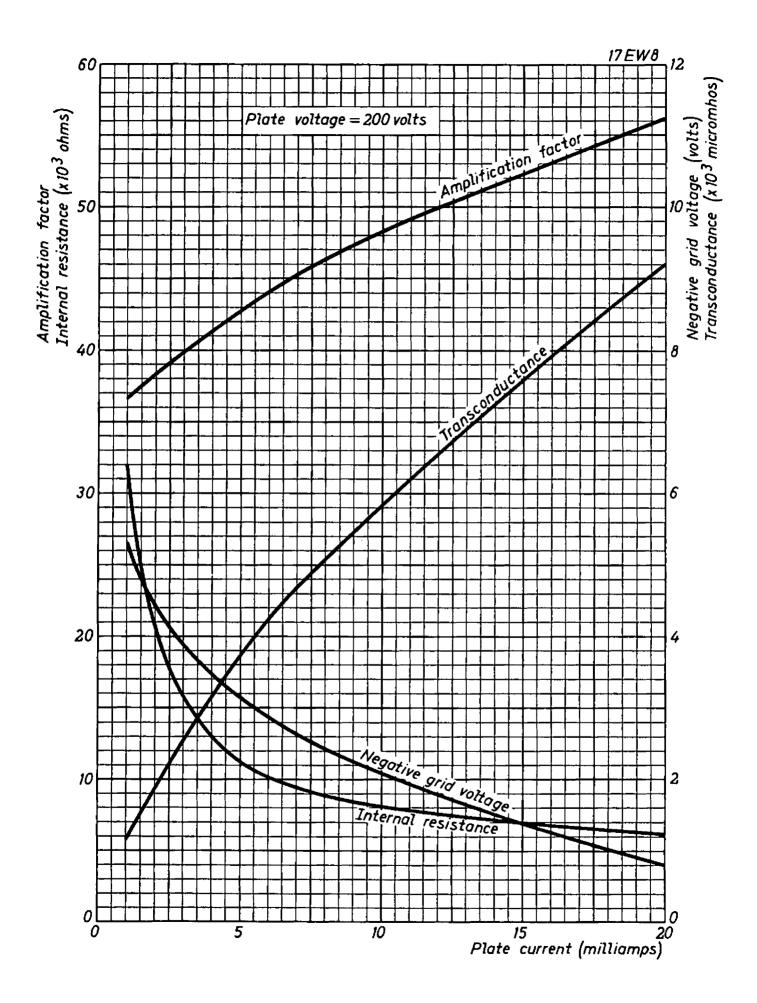
O) See page 2



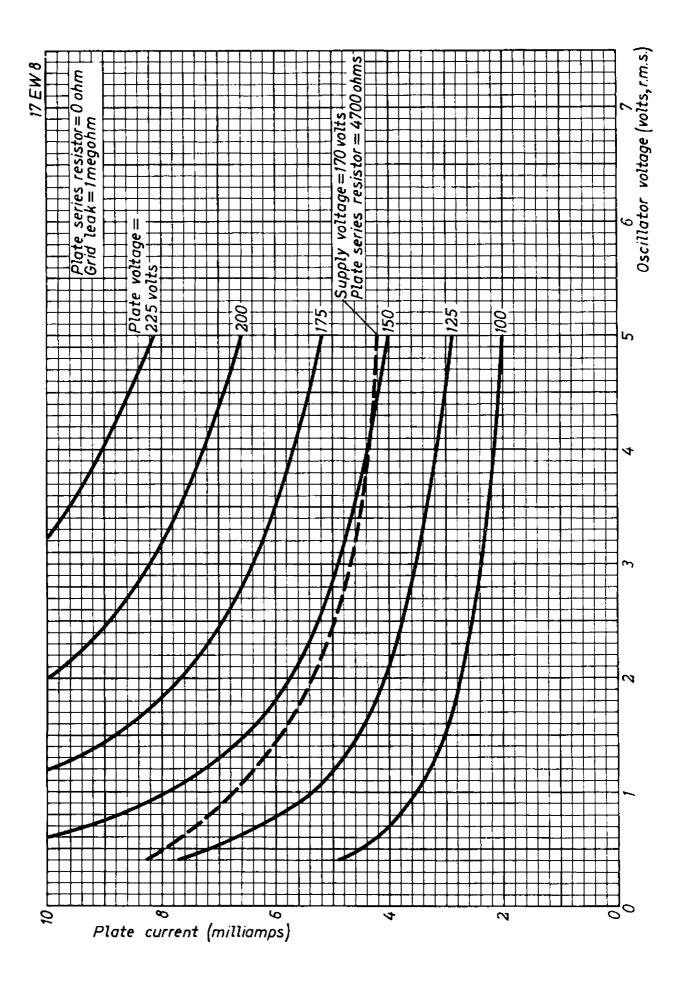


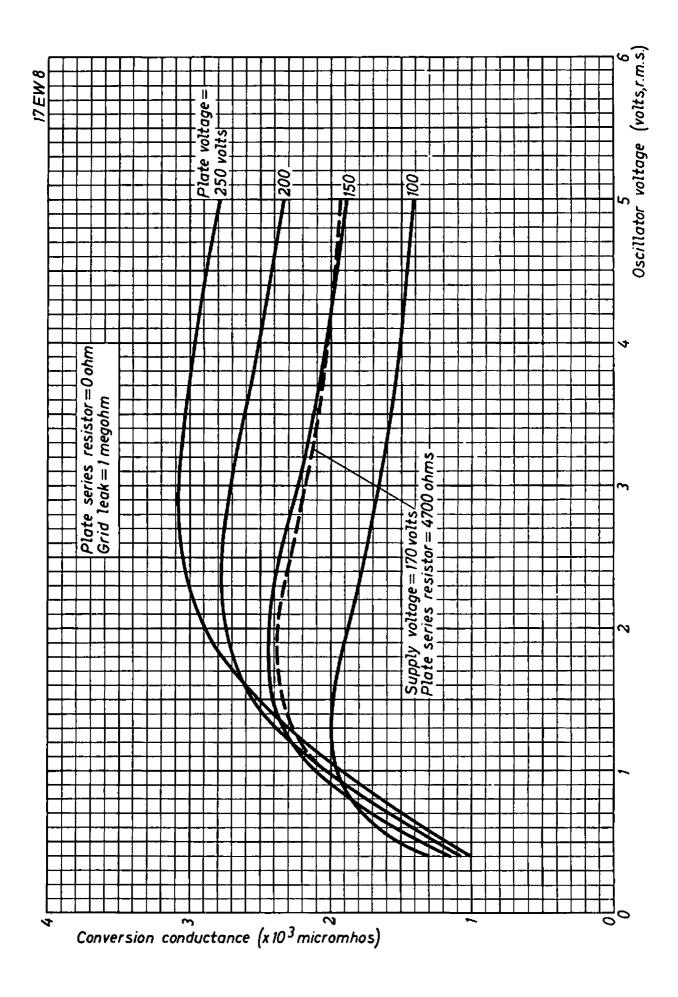






19-1-59 E





19-1-59 G

