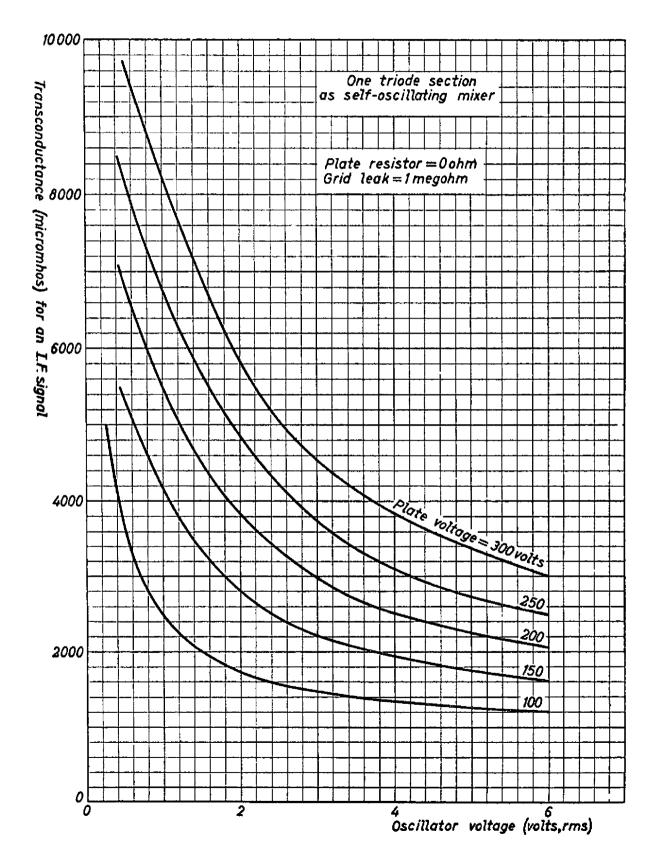


```
DOUBLE TRIODE for use as R.F. amplifier and self-oscil-
lating mixer
PHYSICAL SPECIFICATIONS
                                      Coated unipotential
Cathode
Base
                                 Small button noval 9-pin
                                             2 \frac{3}{16} inches
Maximum overall length
                                             115/16 inches
Maximum seated height
                                        1 9/16±3/32 inches
Bulb length excluding tip
                                                7/8 inch
Maximum diameter
Mounting position
                                                    any
Basing connections- JETEC basing designation
                                                      9 DE
Pin 1 - Plate
                                              max 7/8"
                   Triode
Pin 2 - Grid
                   section 1
Pin 3 - Cathode
Pin 4 - Heater
Pin 5 - Heater
                                                          702
Pin 6 - Plate
                   Triode
Pin 7 - Grid
                   section 2
                                 3
Pin 8 - Cathode
                                              Pin 9 - Internal shield
GENERAL ELECTRICAL DATA
Heater voltage
                                                6.3 volts
Heater current
                                              0.435 ampere
Direct Interelectrode Capacitances
        Triode section 1
Plate to grid
                                                1.5 µµF
Plate to cathode
                                               0.18 µµF
Grid to cathode + heater + shield
                                               3.0 µµF
Plate to cathode+ heater + shield
                                               1.2 µµF
Plate to cathode+ heater + shield<sup>X</sup>)
                                               1.9 µµF
<sup>x</sup>) With external shielding can with diameter of 0.886"
```





## 6 A Q 8

Triode section 2 Plate to grid 1.5 µµF Plate to outhode 0.18 µuT Grid to cathode + heater + shield 3.0 uµF Plate to cathode + heater + shield 1.2 ццF Plate to cathode + heater+shield#) 1.9 µµF Between triode section 1 and triode section 2 Plate to plate max. 0.04 µµF Plate to plate\*) max.0.008 uuF Grid to grid max.0.003 µµF Plate section 1 to grid section 2 max.0.008 µµF Plate section 2 to grid section 1 max.0.008 µµF Plate section 1 to cathode section 2 max.0.008 µµF Plate section 2 to cathode section 1 max.0.008  $\mu\mu F$ Grid section 1 to cathode section 2 max.0.003  $\mu\mu$ F Grid section 2 to cathode section 1 max.0.003  $\mu\mu F$ Maximum ratings (design center values; each section) Plate voltage max. 300 volts Plate voltage without current max. 550 volts Plate dissipation max. 2.5 watts Plate dissipation of both sections 4.5 watts max. together Cathode current max. 15 mamps 100 volts Negative grid bias max. External resistance between grid 1 megohm max. and cathode External resistance between cathode and heater max.20 000 ohms 90 volts Voltage between cathode and heater max. Typical characteristics (each section) 250 volts Plate voltage Negative grid bias -2.3 volts Plate current 10 mamps Transconductance 5900 micromhos Amplification factor 57 \*) With external shielding can with diameter of 0.886"

		6 AQ8
Operating characteristics as 1 ceivers	R.F. amplifier in	n FM/AM re-
Supply voltage	250	volts
Plate series resistor	1800	ohms
Plate voltage	230	volts
Jathode resistor	200	ohms
Plate current	10	m amps
Negative grid bias	-2	volts
Iransconductance	6000	micromhos
Internal resistance	9700	ohms
Input resistance at 100 Mc	6000	ohns
Equivalent noise resistance	500	ohms
Operating characteristics as FM/AM receivers	self-oscillating	<u>mixer</u> in
Supply voltage	250	volts
Plate resistor	12000	ohms
Grid leak	1	megohm
Oscillator voltage	3	volts, rms
Plate jurrent	5.2	m amps
Conversion conductance	2300	micromhos
Internal resistance	22 000	ohms
Input resistance at 100 Mc	15 000	ohms



