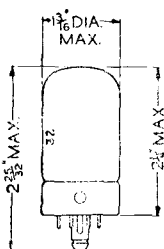
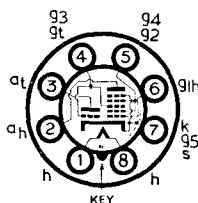


Replacement Type



TYPE 7S7
(LOCTAL BASE)
TRIODE-HEPTODE
FREQUENCY CHANGER



The BRIMAR type 7S7 is an indirectly heated triode-heptode of the "all glass" construction, fitted with a lock-in type base. Type 7S7 features high conversion, together with high anode impedance and will operate efficiently at frequencies up to 100 Mc/s.

RATINGS

Heater Voltage	...	...	...	...	6.3 volts
Heater Current	...	...	...	...	0.3 amp.
Heptode Anode Voltage	...	...	...	...	300 volts max.
Heptode Screen (g_2, g_4) Voltage	...	...	...	...	100 volts max.
Triode Anode Supply Voltage	...	...	...	...	300 volts max.
Total Cathode Current	...	...	...	...	14 mA max.

OPERATING CHARACTERISTICS

Heptode Anode Voltage	...	...	...	100	250	volts
Heptode Anode Current	...	...	...	1.9	1.8	mA
Heptode Screen Voltage	...	...	...	100	100	volts
Heptode Screen Current	...	...	...	3.0	3.0	mA
Heptode Control Grid (g_1) Voltage	...	...	...	-2	-2	volts
Cathode Bias Resistor	...	...	...	250	200	ohms
Heptode Anode Impedance	...	...	...	0.5	1.25	meg.
Triode Anode Supply Voltage	...	...	...	100	250	volts
Triode Anode Resistor	...	...	...	-	20,000	ohms
Triode Anode Voltage	...	...	...	100	150	volts
Triode Anode Current	...	...	...	3.0	5.0	mA
Triode Grid Current	...	...	...	0.3	0.4	mA
Triode Grid Resistor	...	...	...	50,000	50,000	ohms
Conversion Conductance	...	...	...	0.5	0.53	mA/V
Heptode Control Grid Voltage	...	...	...	-21	-21	volts

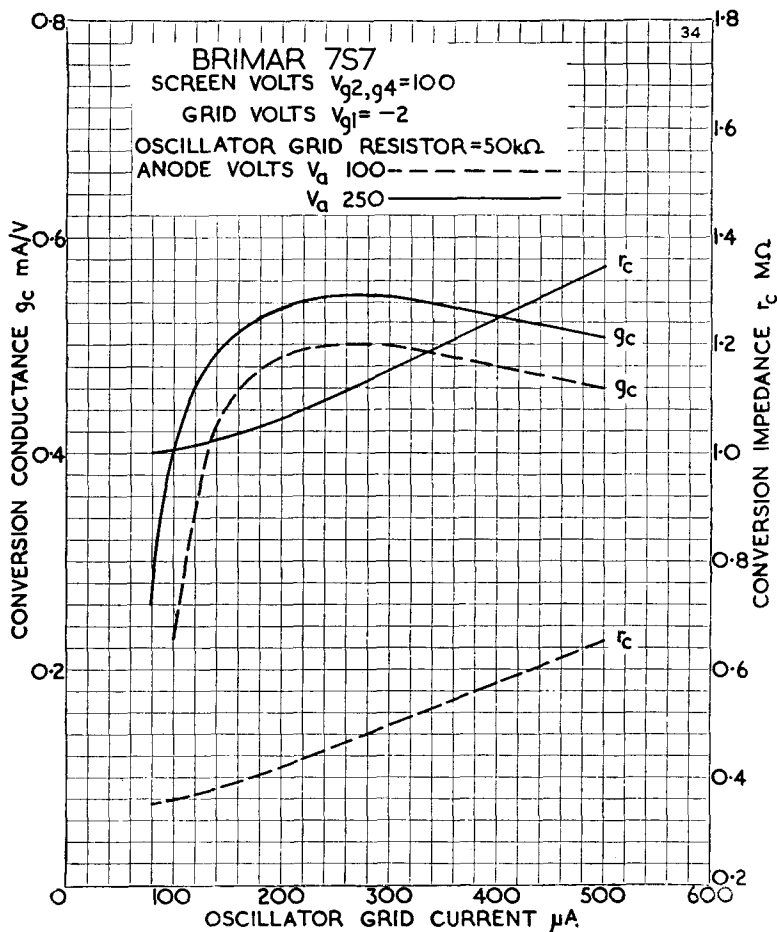
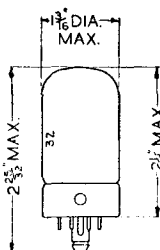
(For Conversion Conductance of 0.005 mA/V)

INTER-ELECTRODE CAPACITANCES *

R.F. Input (g_1 to all except a_h)	..	..	...	...	5.0 pF
I.F. Output (a_h to all except g_1)	...	...	...	...	8.0 pF
Oscillator Input (g_1 to all except a_t)	...	...	...	...	7.0 pF
Oscillator Output (a_t to all except g_1)	...	...	...	...	3.5 pF
Control Grid (g_1) to Heptode Anode (a_h)	...	...	...	...	0.03 pF max.
Oscillator Grid (g_1) to Oscillator Anode (a_t)	...	...	...	...	1.0 pF

* With close fitting shield connected to Cathode.

7S7
7Y4

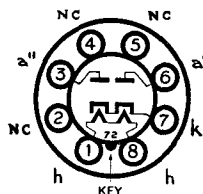


Replacement Type

TYPE 7Y4

(LOCTAL BASE)

FULL-WAVE RECTIFIER



Heater Voltage	...	...	...	...	...	...	6.3 volts
Heater Current	...	...	...	...	...	...	0.5 amp.

Other characteristics as type 6X4.