Standard Telephones and Cables Limited
BRIMAR VALVE WORKS, FOOTSCRAY, SIDCUP, KENT, ENGLAND

BRIMAR

R. E. T. M. A. REGISTRATION DATA

TYPE 9BR8.

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TYPE 9BR8

The 9BR8 comprises two electrically independent sections - a triode and a pentode - in the 9 pin miniature construction. Both units are capable of good performance at the higher frequencies. The tube may be used as a local oscillator-pentode mixer for FM or television receivers or in the many combined functions in such receivers. The electrical characteristics are similar to those of the 9U8.

MECHANICAL DATA.

Coated unipotential cathodes - 2.
Outline drawing..... 6-2 Bulb..... T-6½
Base..... E9-1 Miniature Button 9-pin
Maximum diameter..... 7/8"
Maximum overall length..... 2.3/16"
Maximum seated height..... 1.15/16"
Pin Connections..... Basing

Pin 1 - Triode Grid	Pin 6 - Pentode Plate
Pin 2 - Triode Plate	Pin 7 - Pentode Grid No.2
Pin 3 - Triode Cathode	Pin 8 - Pentode Cathode, Grid No.3, Shield
Pin 4 - Heater	Pin 9 - Pentode Grid No.1
Pin 5 - Heater	

Mounting position..... Any

ELECTRICAL DATA.

Direct Inter-electrode Capacitances.

	With Shield	Without Shield	
Pentode Grid No.1 to pentode plate	.008	0.015max	µµF
Pentode input	5.0	5.0	µµF
Pentode output	3.5	2.6	µµF
Triode grid to triode plate	1.8	1.8	µµF
Triode grid to cathode	2.5	2.5	µµF
Triode plate to cathode	1.0	0.4	µµF
Cathode to heater (either section) approx.	3.0	3.0	µµF

Ratings - Interpreted according to design centre system

	Triode Unit	Pentode Unit	
Heater voltage	9.45		volts
Maximum heater-cathode voltage:			
Heater negative with respect to cathode			
Total DC and peak	250	250	volts

	Triode Unit	Pentode Unit	
Heater positive with respect to cathode			
D.C.	100	100	volts
Total D.C. and Peak	200	200	volts
Maximum plate voltage	300	300	volts
Maximum Grid No.2 voltage		300	volts
Maximum plate dissipation	2.7	2.8	watts
Maximum Grid No.2 dissipation		0.5	watts
Maximum positive D.C. Grid No.1 voltage		0	volts
Maximum positive D.C. grid voltage	0		volts

Typical operating conditions and characteristics.

	Triode	Pentode	
Heater voltage	9.45		volts
Heater current	300		mA
Plate voltage	150	250	volts
Grid No.2 voltage		110	volts
Cathode resistor	56	68	ohms
Transconductance	8,500	5,200	µmhos
Grid No.1 voltage (approx.) for I_b = 10µA.	-12	-10	volts
Plate current	18	10	mA
Grid No.2 current		3.5	mA
Plate resistance (approx.)	.005	0.40	megohm
Amplification factor	40		