BRIMAR VALVES

Standard Telephones & Cables Ltd. Footscray, Sidcup, Kent, England

JETEC TYPE 9 U 8
TRIODE-PENTODE

The type 9U8 is identical to the type 6U8 except for heater ratings.

MECHANICAL DATA

Coated unipotential cathode
Outline drawing ..... 6 - 2 Bulb.....T - 6½
Base..... E9 - 1 miniature glass button 9 - pin
Maximum diameter .....7/8"
Maximum overall length .....2-3/16"
Maximum seated height .....1-15/16"
Pin connections 9AE

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

Mounting position ..... Any

ELECTRICAL DATA

Direct interelectrode capacitances.

Pentode unit.	With Shield	Without Shield	
Grid No. 1 to plate: (g1 to p).....	0.006 (Max.)	0.01 (Max.)	μμF
Input: g1 to (h + k & g3 & i.s. + g2).....	5	5	μμF
Output: p to (h + k & g3 & i.s. + g2).....	3.5	2.6	μμF
Triode Unit			
Grid to plate: (g to p).....	1.8	1.8	μμF
Input: g to (h +k)	2.5	2.5	μμF
Output: p to (h + k)	1.0	0.4	μμF
Cathode to heater: (k to h) each section (approx)	3	3	μμF

Ratings

	Triode Unit	Pentode Unit	
Heater voltage (ac or dc)	9.45		volts
Maximum heater-cathode voltage	90 (dc or peak ac)		volts
Maximum plate voltage	300	300	volts
Maximum grid no. 2 voltage		300	volts
Maximum grid no. 2 supply voltage		300	volts
Maximum positive dc control-grid voltage	0	0	volts
Maximum plate dissipation	2.7	2.8	watts
Maximum grid no. 2 dissipation		0.5	watt

from JETEC release #1343, Aug. 16, 1954

Typical operating conditions and characteristics.

	Triode Unit		Pentode Unit	
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
Amplification factor	40		-	
Plate resistance (approx.)	0.005		0.4	megohm
Transconductance	8500		5200	μ mhos
Plate current	18		10	mA
Grid no. 2 current	-		3.5	mA
Control-grid voltage (approx) for Ib = 10 μA	-12		-10	volts