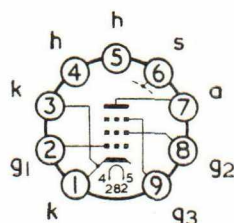


R.F. PENTODE



B9A Base

GENERAL

This valve is a high slope Pentode for R.F. or I.F. Amplification in television receivers. It is also suitable for use as a video output and synchronising pulse separator.

Heater Voltage	V_h	6.3	V
Heater Current	I_h	0.3	A

RATINGS

Maximum Anode Dissipation	$P_a(\max)$	2.5	W
Maximum Screen Grid Dissipation	$P_{g2}(\max)$	0.7	W
Maximum Anode Voltage	$V_a(\max)$	300	V
Maximum Screen Grid Voltage	$V_{g2}(\max)$	300	V
Maximum Heater to Cathode Voltage (R.M.S.)	$V_{h-k}(\text{r.m.s.})\max$	150	V
Maximum Cathode Current	$I_k(\max)$	15	mA
Maximum Resistance Control Grid to Cathode	$R_{g1-k}(\max)$		
Fixed Bias		0.5	M Ω
Self Bias		1	M Ω

INTER-ELECTRODE CAPACITANCES

Input	C_{in}	7.5	pF
Output	C_{out}	3.3	pF
Grid 1 to Anode	C_{g1-a}	<0.007	pF
Grid 1 to Grid 2	C_{g1-g2}	2.6	pF
Grid 2 to all	C_{g2-all}	5.4	pF
Anode to Cathode	C_{a-k}	<0.01	pF
Grid 1 to Heater	C_{g1-h}	<0.15	pF

* In fully-shielded socket without can (I.E.C. Publication 100).

CHARACTERISTICS

Anode Voltage	V_a	170	200	250	V
Screen Grid Voltage	V_{g2}	170	200	250	V
Anode Current	I_a	10	10	10	mA
Screen Grid Current	I_{g2}	2.5	2.6	2.8	mA
Mutual Conductance	g_m	7.4	7.1	6.8	mA/V
Valve Anode Resistance ($\delta V_a / \delta I_a$)	r_a	0.5	0.55	0.65	M Ω
Inner Amplification Factor	μ_{g1-g2}	50	50	50	
Input Resistance at 50 Mc/s	$r_{in}(50\text{Mc/s})$	10	12	15	k Ω

MOUNTING POSITION—Unrestricted

