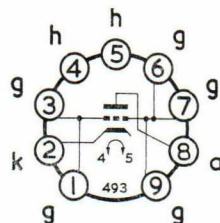


U.H.F. TRIODE



B9A Base

GENERAL

This frame grid triode is for use as a grounded grid U.H.F. Amplifier for bands IV and V.

Heater Current	I_h	0.3	A
Heater Voltage	V_h	3.8	V

RATINGS

Maximum Anode Dissipation	$P_a(\max)$	2.0	W
Maximum Anode Supply Voltage	$V_{a(b)}(\max)$	550	V
Maximum Anode Voltage	$V_a(\max)$	175	V
Maximum Negative Grid Voltage	$-V_g(\max)$	50	V
Maximum Heater to Cathode Voltage (R.M.S.)	$V_{h-k}(\text{r.m.s.})\max$	70	V
Maximum Cathode Current	$I_k(\max)$	13	mA
Maximum Grid to Cathode Resistance	$R_{g-k}(\max)$	1.0	MΩ

INTER-ELECTRODE CAPACITANCES

Anode to Grid	C_{a-g}	* 1.2	†	pF
Anode to Grid, Shield	$C_{a-g,s}$			pF
Cathode, Heater to Grid, Shield	$C_{k,h-g,s}$		1.7	pF
Anode to Cathode, Heater	$C_{a-k,h}$		3.8	pF
			0.055	pF

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

† In fully shielded socket with can (I.E.C. Publication 100).

CHARACTERISTICS

Anode Voltage	V_a	160	V
Grid Voltage	V_g	-1.25	V
Anode Current	I_a	12.5	mA
Mutual Conductance	g_m	13.5	mA/V
Valve Anode Resistance ($\delta V_a / \delta I_a$)	r_a	4.8	kΩ
Amplification Factor	μ	65	
Equivalent Grid Noise Resistance	R_{eq}	240	Ω

TYPICAL OPERATION

Anode Voltage	V_a	160	V
Cathode Resistance	R_k	100	Ω
Anode Current	I_a	12.5	mA
Mutual Conductance	g_m	13.5	mA/V
Valve Anode Resistance ($\delta V_a / \delta I_a$)	r_a	4.8	kΩ
Amplification Factor	μ	65	
Noise Factor		10	dB

