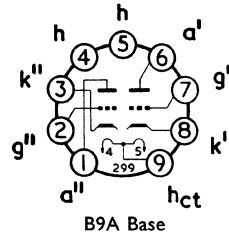


12AT7 BRIMAR

V.H.F.
DOUBLE TRIODE



B9A Base
Equivalents CV455 ECC81

GENERAL

The separate cathode connections and tapped heater features enable this valve to be used in a variety of applications.

Heater Voltage V_h 6.3 } or { 12.6 V
Heater Current I_h 0.3 } or { 0.15 A

RATINGS—Each Section

Maximum Anode Dissipation	$P_{a(max)}$	2.5	W
Maximum Anode Voltage ($I_a = 0$)	$V_{a(b)max}$	550	V
Maximum Anode Voltage	$V_{a(max)}$	300	V
Maximum Negative Grid Voltage	$-V_{g(max)}$	50	V
Maximum Heater to Cathode Voltage	$V_{h-k(max)}$	150	V
Maximum Cathode Current	$I_{k(max)}$	20	mA

INTER-ELECTRODE CAPACITANCES*

Input'	C_{in}'	2.5	pF
Input''	C_{in}''	2.5	pF
Output'	C_{out}'	0.4	pF
Output''	C_{out}''	0.4	pF
Anode' to Grid'	$C_{a'-g}'$	1.5	pF
Anode'' to Grid''	$C_{a''-g}''$	1.5	pF
Cathode' to Heater	$C_{k'-h}$	2.5	pF
Cathode'' to Heater	$C_{k''-h}$	2.5	pF
Grid' to Grid''	$C_{g'-g}''$	<0.005	pF
Anode' to Anode''	$C_{a'-a}''$	<0.4	pF

* Measured without an external shield.

CHARACTERISTICS (Each Section—Class A)

Anode Voltage	V_a	100	180	250	V
Anode Current	I_a	3.7	11	10	mA
Grid Voltage	V_g	-1.0	-1.0	-2.0	V
Valve Anode Resistance ($\partial v_a / \partial i_a$)	r_a	13.5	9.4	10	k Ω
Mutual Conductance	g_m	4.0	6.6	5.5	mA/V
Amplification Factor	μ	54	62	55	
Grid Voltage for Anode Current cut-off	V_g	-6.0	-8.0	-12	V

MOUNTING POSITION—Unrestricted

