

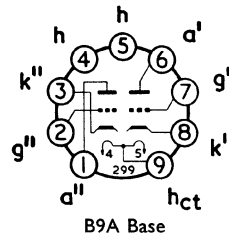
# 12AT7 BRIMAR

V.H.F.  
DOUBLE TRIODE

### 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



Equivalents CV455 ECC81

### 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 $\Omega$
Mutual Conductance	$g_m$	4.0	6.6	5.5	mA/V
Amplification Factor	$\mu$	54	62	55	
Grid Voltage for Anode Current cut-off	$V_g$	-6.0	-8.0	-12	V

MOUNTING POSITION—Unrestricted

