



R.F. DOUBLE TRIODE

A double triode with separate cathodes, primarily designed for use as a Cascode Amplifier in Television Receivers with series heater chains. Suitable for operation at frequencies up to 220 Mc/s.

PHYSICAL DETAILS.

Base	...	...	...	B9A—Noval.
Max. Overall Length	...	...	...	56 mm. ($2\frac{1}{2}$ in.).
Max. Seated Height	...	...	...	49 mm. ($1\frac{1}{2}$ in.).
Max. Diameter	...	...	...	22.2 mm. ($\frac{7}{8}$ in.).
Mounting Position	...	...	...	Any.

BASE CONNECTIONS.

Pin 1—Cathode Triode 2.	Pin 5—Heater.
Pin 2—Grid Triode 2, Shield.	Pin 6—Grid Triode 1.
Pin 3—Anode Triode 2.	Pin 7—Cathode Triode 1.
Pin 4—Heater.	Pin 8—Cathode Triode 1.
	Pin 9—Anode Triode 1.

The triode on Pins 6, 7, 8 and 9 should have grounded-cathode connection and that on pins 1, 2 and 3 should have grounded-grid connection. Pins 7 and 8 should preferably be strapped.

HEATER.

Heater Current	...	...	...	0.3 amp.
Heater Voltage	...	...	...	7.5 volts.

RATINGS. *

Max. Anode Supply Voltage	...	...	...	550 volts.
Max. Anode Voltage	...	...	...	130 volts.
Max. Anode Dissipation	...	...	...	1.8 watts.
Max. Cathode Current	...	...	...	18 mA.
Max. Neg Grid Voltage	...	...	...	-50 volts.
Max. R_{h-k}	...	...	...	20 k Ω
Max. $V_{h-k'}$	...	...	...	50 volts (r.m.s.).
Max. $V_{h-k''}$ (pk) (heater negative)	...	...	...	200 volts.
Max. $R_{g'-k'}$	...	...	...	1.0 M Ω
Max. $R_{g''-k''}$	...	...	...	0.5 M Ω

CHARACTERISTICS.

Anode Voltage	...	...	...	90 volts.
Grid Voltage	...	...	...	-1.2 volts.
Anode Current	...	...	...	15.5 mA.
Amplification Factor	...	...	...	36
Mutual Conductance	...	...	...	12 mA/V.
Anode Impedance	...	...	...	2.9 k Ω

CAPACITANCES. †

$C_{g'-a''}$	...	...	...	< .005 pF.
$C_{a''-a''}$	...	...	...	< .015 pF.

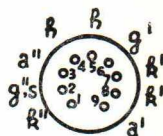
Grounded Cathode Section.

$C_{a''-g'}$	...	...	...	1.9 pF.
$C_{g'-k'+h+g''+s}$	...	...	...	3.8 pF.
$C_{a''-k'+h+g''+s}$	...	...	...	2.5 pF.
$C_{g'-h}$	...	...	...	< 0.3 pF.

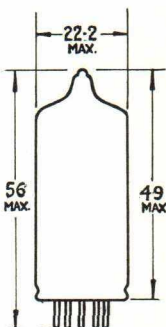
Grounded Grid Section.

$C_{a''-g''}$	...	...	...	4.1 pF.
$C_{a''-k''}$	...	...	...	< 0.2 pF.
$C_{k''-g''+h+s}$	...	...	...	6.3 pF.
$C_{a''-g''+h+s}$	...	...	...	4.5 pF.
$C_{h-k''}$	...	...	...	2.9 pF.

PCC89



Base
Connections
Underside View
of Base



All dimensions
shown are in
millimetres
(max.).



TYPICAL CHARACTERISTICS

