

FERRANTI DOUBLE DIODE

A miniature Double Diode with separate cathodes designed for high frequency operation. There is internal screening between the sections.

PHYSICAL DETAILS.

Base	...	...	...	B7G.
Max. Overall Length	...	...	...	54.5 mm. (2 $\frac{1}{8}$ in.).
Max. Seated Height	...	...	...	47.5 mm. (1 $\frac{7}{8}$ in.).
Max. Diameter	...	...	...	19 mm. ($\frac{3}{4}$ in.).
Mounting Position	...	...	...	Any.

BASE CONNECTIONS.

Pin 1—Cathode 1.	Pin 4—Heater.
Pin 2—Anode 2.	Pin 5—Cathode 2.
Pin 3—Heater.	Pin 6—Internal Shield.
Pin 7—Anode 1.	

HEATER.

Heater Voltage	...	...	...	6.3 volts.
Heater Current	...	...	...	0.3 amp.

RATINGS.

Max. Peak Inverse Voltage	...	...	...	420 volts.
Max. R.M.S. Input Voltage	...	...	...	150 volts.
*Max. Peak Anode Current	...	...	...	54 mA.
*Max. Rectified Current	...	...	...	9 mA.
*Max. Resonant Frequency	...	...	...	700 M/cs.
Max. V_{h-k}	...	...	...	330 volts DC.

TYPICAL OPERATING CONDITIONS.

(as Half-wave Rectifier)**

*R.M.S. Input Voltage	...	...	...	150 volts.
*Output Current	...	...	...	9 mA.
*Supply Impedance	...	...	...	300 ohms.

CAPACITANCES.

†† $C_{a'-a''}$	...	...	...	<0.026 pF.
† $C_{a'-k'+h+s}$	...	...	...	3.0 pF.
† $C_{a''-k'+h+s}$	...	...	...	3.0 pF.
‡ $C_{k'-a'+h+s}$	...	...	...	3.4 pF.
‡† $C_{k'-a''+h+s}$	...	...	...	3.4 pF.

*Each Section.

†† With close-fitting external shield connected to Cathode No. 1

† With close-fitting external shield connected to Cathode No. 2

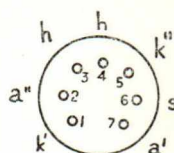
‡ With close-fitting external shield connected to Anode No. 1

‡ With close-fitting external shield connected to Anode No. 2

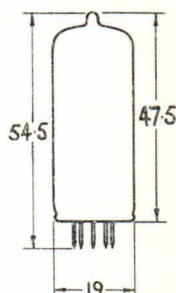
†† With close-fitting external shield connected to earth.

**For half-wave operation, the two units may be used separately or in parallel.

DD6



Base
Connections
Underside View
of Base



All dimensions
shown are in
millimetres
(max.).



DD6

