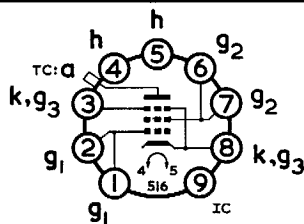


### LINE OUTPUT PENTODE



Base B9D, Cap CT1

### GENERAL

This output pentode is primarily intended for use in the line timebase of television receivers.

Heater Voltage	$I_h$	0.3	A
Heater Current	$V_h$	27	V

### RATINGS

Maximum Anode Dissipation	$P_a(\max)$	See Rating Chart	
Maximum Anode and Screen Grid Dissipation	$P_{(a+g2)\max}$	See Rating Chart	
Maximum Screen Grid Dissipation	$P_{g2}(\max)$	See Rating Chart	
Maximum Anode Supply Voltage	$V_{a(b)\max}$	550	V
Maximum Anode Voltage	$V_a(\max)$	250	V
Maximum Peak Anode Voltage	$V_a(pk)\max$	7.0*	kV
Maximum Screen Grid Supply Voltage	$V_{g2(b)\max}$	550	V
Maximum Screen Grid Voltage	$V_{g2}(\max)$	250	V
Maximum Heater to Cathode Voltage (R.M.S.)	$V_{h-k(r.m.s.)\max}$	220†	V
Maximum Cathode Current	$I_k(\max)$	250	mA
Maximum Control Grid to Cathode Resistance	$R_{g1-k}(\max)$	500‡	kΩ

\* Maximum pulse duration 22% of one cycle with a maximum of 22μs.

† Measured with respect to the high potential heater pin.

‡ In line timebase applications  $R_{g1-k}(\max)$  may be 2.2 MΩ.

### INTER-ELECTRODE CAPACITANCES §

Input	$C_{in}$	22	pF
Output	$C_{out}$	9.0	pF
Anode to Grid 1	$C_{a-g1}$	<1.75	pF
Grid 1 to Heater	$C_{g1-h}$	<0.2	pF

§ Measured without external shield.

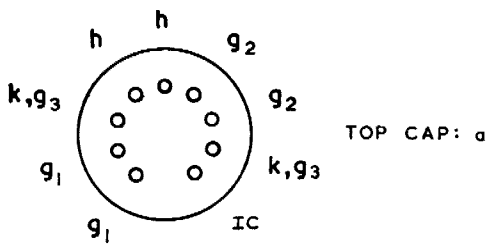
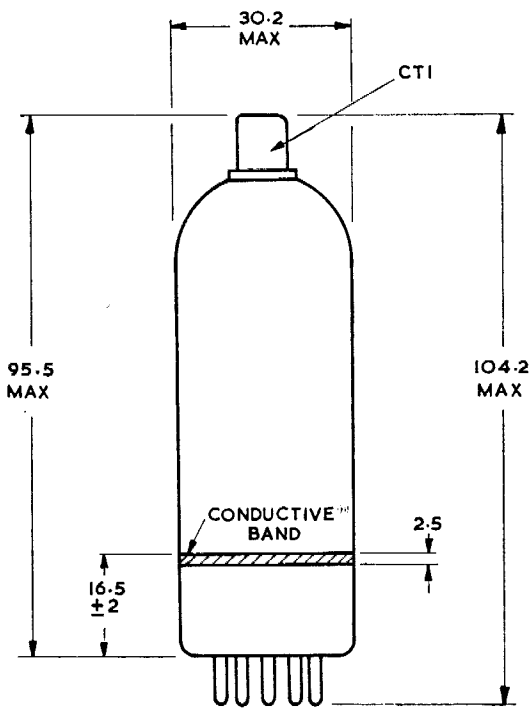
### CHARACTERISTICS

Anode Voltage	$V_a$	75	V
Screen Grid Voltage	$V_{g2}$	200	V
Control Grid Voltage	$V_{g1}$	-10	V
Anode Current	$I_a$	440	mA
Screen Grid Current	$I_{g2}$	30	mA

### CIRCUIT DESIGN

When calculating the peak anode current for circuit design purposes the knee should be taken as the reference point. Operation so that the anode potential of the output valve at the end of scan is above the knee of the anode characteristic is only recommended when an effective feedback stabilising circuit is employed.

Characteristic curves are as the PL500.



0160

B9D BASE

All dimensions in mm.

