#### **Limit Ratings**

Maximum counting rate:	
Continuous sine wave drive	20 kp/s
Rectangular pulse drive	10 kp/s
Maximum total anode current	900 μA
Minimum total anode current	700 μA
Minimum supply voltage, anode to cathode	
(normal room illumination)	440 V
Maximum potential between guides and cathodes	180 V
Maximum output pulse available with 47k cathode	
load resistor	35 V

#### **Characteristics**

Running voltage at 800 µA

208 V approx.

#### **Recommended Operating Conditions**

*Anode current	800 μΑ
**Guide bias	+50 ± 5 V
Cathode load resistors	47 kΩ max. ←
Forced resetting pulse	140 V
***Double pulse drive—amplitude	$-120~V~\pm~10~V$
Double pulse drive—duration	$30 \mu S \pm 20\%$
Double pulse drive—pulse overlap at	, •
the 90% pulse level	10 ± 5 μS ←
****Integrated pulse drive—amplitude	$-145~V~\pm~15~V$
Integrated pulse drive—duration	33 μS ± 20% ←
Sine wave drive—amplitude	60—100 V r.m.s. ←

\* The required anode current may be obtained from a 475 V supply via a 300 k $\Omega \pm$  5% resistor.

Note—To reduce the effect of stray capacity to a minimum it is essential that the anode resistor be wired not more than  $\frac{1}{4}$ " (5 mm) from the anode tag on the valve holder.

- \*\* This does not apply in the case of the sine wave drive. See circuit LK.100,
- \*\*\* The pulses should have a rise time of less than 150 V/ $\mu$ S and a droop of less than 30 V. See circuit LK.102, Issue 2.
- \*\*\*\* The pulse should have a rate of rise of less than 150 V/ $\mu$ S and a droop of less than 5 V. See circuit LK.101, Issue 2.
- N.B. Indicates a change from previous data sheet.

# Bi-directional 10-way Selector Tube

#### Mechanical Data

Mounting position

Any.

For visual indication the tube is viewed through the dome of the

bulb.

Alignment

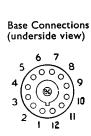
Cathode 1 is aligned with pin No. 11 to an accuracy of  $\pm$  12°.

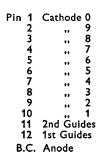
eight 53 g (nominal)

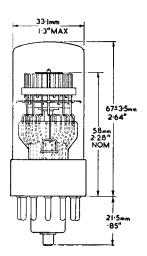
Duodecal with bottom cap.

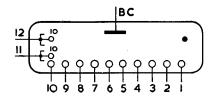
N80977.

Weight Base Escutcheon



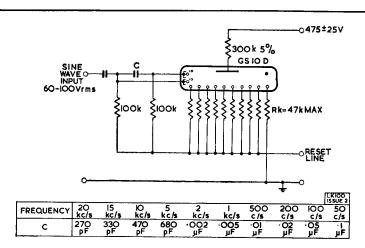




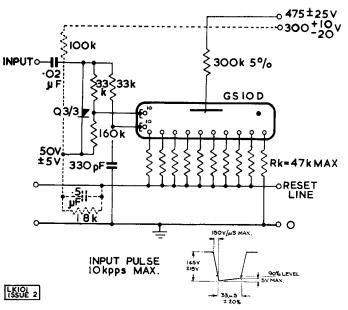


## Bi-directional 10-way **Selector Tube**

# **GS 10 D**

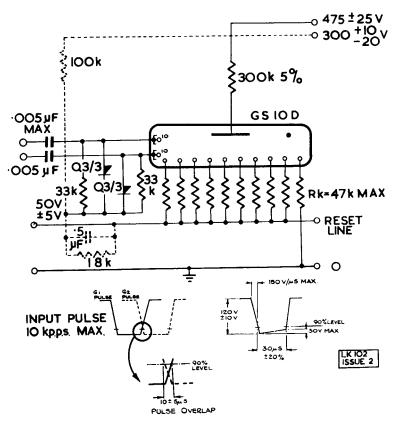


### Continuous Sine-Wave Drive



Integrated-Pulse Drive





Paired-Pulse Drive