

# SUBMINIATURE R.F. PENTODE

# EF70

Subminiature high slope r.f. pentode with a short suppressor grid base. A diode is connected internally to the suppressor grid to prevent this grid locking at a positive voltage.

## HEATER

$V_h$	6.3	V
$I_h$	200	mA

## MOUNTING POSITION

Any

**Note** – Direct soldered connections to the leads of this valve must be at least 5mm from the seal and any bending of the valve leads must be at least 1.5mm from the seal.

## COOLING

In operation this valve may become very hot and, therefore, in the interests of satisfactory life, it should be adequately cooled. A suitable method is to mount the valve in a metal clip which conducts the heat away to the chassis and should result in a bulb temperature of 100°C.

## CAPACITANCES (measured with external shield)

$C_{a-g1}$	< 0.025	pF ←
$C_{in}$	4.5	pF
$C_{out}$	4.7	pF

## CHARACTERISTICS

$V_{a1}$	100	V
$V_{g2}$	100	V
$V_{g3}$	0	V
$I_{a1}$	3.0	mA
$I_{g2}$	2.25	mA ←
$V_{R1}$	-2.0	V
$g_m$	2.5	mA/V
$r_B$	100	kΩ
$\mu_{g1-g2}$	38	
$V_{g3} (I_{a1} = 100 \mu A)$	-8.0	V ←

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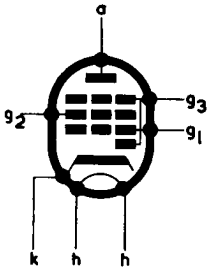
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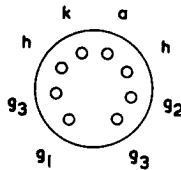
### LIMITING VALUES

$V_{a(b)}$ max.	300	V
$V_a$ max.	175	V
$p_a$ max.	750	mW
$V_{g2(b)}$ max.	300	V
$V_{g2}$ max.	175	V
$p_{g2}$ max.	400	mW
$I_k$ max.	10	mA
$R_{g1-k}$ max.	500	k $\Omega$
$R_{h-k}$ max.	20	k $\Omega$
$V_{h-k}$ max.	100	V

**Note** – A diode is connected internally to  $g_3$  in order to prevent this grid locking at a positive voltage.



3270



BBD/F Base

All dimensions in mm

