SUBMINIATURE R.F. PENTODE

EF72

High slope r.f. pentode

HEATER

V_h	6.3	V
I_h	150	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 long 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 approximately 100°C.

CAPACITANCES

Pentode connected

	Shielded	Unshielded	
c_{a-g1}	<0.015	<0.02	pF
c_{in}	4.1	4.0	pF
c_{out}	2.5	2.0	pF

Triode connected

c_{a-g1}	1.65	pF
c_{in}	2.8	pF
c_{out}	4.2	pF

CHARACTERISTICS

Pentode connected

V_a	100	V
V_{g2}	100	V
V_{g1}	−1.4	V
I_a	7.0	mA
I_{g2}	2.2	mA
g_m	5.0	mA/V
r_a	250	kΩ
μ_{g1-g2}	36	
R_{eq}	1.6	kΩ
R_{in} (f = 50Mc/s)	25	kΩ

Triode connected

V_a	100	V
V_{g1}	−1.4	V
I_a	9.2	mA
g_m	6.8	mA/V
r_a	5.3	kΩ
μ	36	

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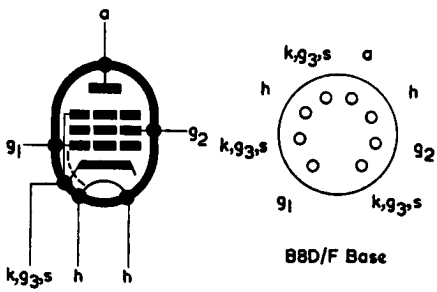
LIMITING VALUES

$V_{a(b)}$ max.	300	V
V_a max.	175	V
$V_{g2(b)}$ max.	300	V
V_{g2} max.	175	V
p_a max.	800	mW
p_{g2} max.	300	mW
p_{a+g2} max.	1.0	W
I_k max.	12	mA
V_{g1} max. ($I_{g1}=+0.3\mu A$)	−1.3	V
R_{g1-k} max.	500	kΩ
V_{h-k} max.	100	V
R_{h-k} max.	20	kΩ



B8D/F Base

3271

All dimensions in mm