

VALVE DATA 4 PREFERRED TYPES E OUTPUT PENTODES E

CHARACTERISTICS

V_a	100	V
V_{g2}	100	V
V_{g1}	0	V
g_m	2.6	mA/V

KLL 32
(contd.)

OPERATING CONDITIONS

V_a	90	120	135	V
V_{g2}	90	120	135	V
$I_{a(o)}$	2.8	3.3	3.8	mA
I_a (max. sig.)	9.8	14.4	16.9	mA
V_{g1}	-7.4	-10.2	-11.3	V
I_{g2} (max. sig.)	2.8	4.6	5.7	mA
V_{in} (r. m. s.)	5.2	7.3	8.4	V
P_{out}	0.45	0.94	1.2	W
D_{tot}	1.8	2.5	2.8	%
R_{a-a}	16	16	16	K Ω



84

BASE:
Octal

DIMENSIONS:

$L=101$ mm

$D=41$ mm

Output pentode. Suitable for use in frame time base or audio output stage of series operated television receivers

PL 33

HEATER

V_h 19 V I_h 0.3 A Suitable for series operation, D.C. or A.C.

CAPACITANCE

C_{0-g1} 1.0 $\mu\mu\text{F}$

OPERATING CONDITIONS

As single Class "A" amplifier

V_a	175	200	225	V
V_{g2}	175	200	225	V
R_k	150	150	150	Ω
V_{g1}	-4	-4.65	-5.3	V
I_a	24	28	32	mA
I_{g2}	2.6	3.0	3.4	mA
g_m	8	8.6	9	mA/V
r_a	60	55	50	K Ω
I_{g1-g2}	23	23	23	
R_a	7	7	7	K Ω
V_{in} (r. m. s.) ($D_{tot}=10\%$)	—	—	3.4	V
P_{out} ($D_{tot}=10\%$)	—	—	3.3	W
V_{in} (r. m. s.) (start of I_{g1})	2.6	3.1	3.6	V
P_{out} (start of I_{g1})	1.8	2.55	3.45	W
D_{tot} (start of I_{g1})	8.8	10	11	%



4 VALVE DATA **PREFERRED TYPES** **E OUTPUT PENTODES**

PL 33 LIMITING VALUES

(contd.)



$V_{a(b)}$ max.	550	V
V_a max.	250	V
p_a max.	9	W
$V_{g2(b)}$ max.	550	V
V_{g2} max.	275	V
$p_{g2(o)}$ max.	1.2	W
p_{g2} (max. sig.) max.	2.5	W
I_k max.	55	mA
R_{g1-k} max. (self bias)	1.0	M Ω
V_{h-k} max.	300	V

BASE:
Octal

DIMENSIONS:
 $L=126$ mm
 $D=46$ mm

PL 38 Output pentode. Suitable for use as line time base output valve in series operated television receivers. **PL38M** is metallised

PL 38M

HEATER

V_h 30 V I_h 0.3 A Suitable for series operation, D.C. or A.C.

CAPACITANCES

PL38M

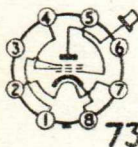
PL38

C_{in}	18	18	μ F
C_{out}	9.5	6.5	μ F
C_{a-g1}	<1.0	<1.2	μ F

CHARACTERISTICS

V_a	200	V
V_{g2}	200	V
V_{g1}	-5.5	V
I_a	75	mA
I_{g2}	9.0	mA
g_m	13.5	mA/V
r_a	20	K Ω
μ_{g1-g2}	16.5	

LIMITING VALUES



V_a max.	800	V
$V_{a(pk)}$ max.	8	KV
V_{g2} max.	400	V
p_a max.	25	W
p_{g2} max.	8	W
I_k max.	200	mA
R_{g1-k} max. ($p_a < 25$ W)	0.5	M Ω^*
R_{g1-k} max. ($p_a < 9$ W)	0.8	M Ω^*
V_{h-k} max.	200	V

BASE: *For self bias operation

PL 38
Octal (73)
PL 38M
Octal (101)

DIMENSIONS:
 $L=141$ mm
 $D=45.5$ mm

