APPENDIX C
VALVE RATINGS AND CHARACTERISTICS

AMPLIFYING VALVES

Type	Equivalents		Description	Cathode Type	Filament or Heater		Maximum Ratings			Characteristics						
	U.S.	European			Voltage	Current	V_a	V_{g2}	p_a(W)	V_a	V_{g2}	I_a	$-V_{g1}$	μ	r_a(kΩ)	g_m(mA/V)
B65	6SN7GT	—	Double triode	Heater	6·3	0·6	250	—	2·5	250	—	—	8	20	7·7	2·6
B309	12AT7	ECC81	Double triode	Heater	12·6/6·3	0·15/0·3	300	—	2·5	250	—	—	2·5	55	10·0	5·5
B329	12AU7	ECC82	Double triode	Heater	12·6/6·3	0·15/0·3	300	—	2·75	250	—	—	8·5	17	7·7	2·2
B339	12AX7	ECC83	Double triode	Heater	12·6/6·3	0·15/0·3	300	—	1	250	—	—	2	100	62·5	1·6
B719	6AQ8	ECC85	Double triode	Heater	6·3	0·435	300	—	2·5	250	—	—	2	58	9·7	6·0
DA42	—	—	Class B triode	Heater	7·5	1·2	1250	—	40	1250	—	40	—	72	24·0	3·0
DA100	—	—	Class AB triode	Filament	6·0	2·0	1250	—	100	1000	—	100	—	5·5	1·41	3·9
DH77	6AT6	EBC90	Double diode triode ...	Heater	6·3	0·3	250	—	2·5	250	—	—	3	70	58·0	1·2
KT33C	—	—	Beam pentode	Heater	25/13	0·3/0·6	200	200	13	175	175	—	7	—	22·0	10·0
KT55	—	—	Beam pentode	Heater	52	0·3	400	300	25	200	175	125	—	—	5·0	19·0
KT61	6AG6G	—	Beam pentode	Heater	6·3	0·95	275	275	10	250	250	40	—	—	70·0	10·5
KT66	—	—	Beam pentode	Heater	6·3	1·27	500	400	25	250	250	—	15	—	22·5	6·3
KT88	—	—	Beam pentode	Heater	6·3	1·8	600	600	35	250	250	140	—	—	12·0	11·0
L63	6J5GT	—	Triode	Heater	6·3	0·3	250	—	2·5	250	—	—	8	20	7·7	2·6
LN309	—	PCL83	Triode-pentode { Triode : / Pentode :	Heater	12·6	0·3	250 250	... 250	3·5 5·4	250 165	— 165	— —	8·5 9	17 —	7·7 45·0	2·2 4·7
N709	6BQ5	EL84	Output pentode	Heater	6·3	0·76	300	300	12	250	250	48	—	—	38·0	11·3
V1505	—	—	Class AB triode	Filament	14	6·5	3000	—	275	2000	—	150	—	16	2·0	8·0
Z729	6267	EF86	Low noise pentode ...	Heater	6·3	0·2	300	200	—	250	140	—	2	—	2·0	1·85

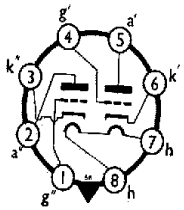
RECTIFIERS

Type	Equivalents		Description	Cathode Type	Filament or Heater		PIV	$V_{a(rms)}$	$i_{a(pk)}$ (mA)	I_{out} (mA)	t_{adj} (seconds)
	U.S.	European			Voltage	Current					
GXU1	3B28	—	Xenon half-wave	Filament	2·5	5·0	10000	—	1000	250	5
GXU50	—	—	Xenon half-wave	Filament	4·0	3·0	5200	1750	1000	250	30
U19	—	—	Vacuum half-wave	Filament	4·0	3·3	7100	2500	1500	250	20*
U31	—	—	Vacuum half-wave	Heater	26·0	0·3	710	250	720	120	—
U50	5Y3G	—	Vacuum bi-phase half-wave ...	Filament	5·0	2·0	1000	350	370	120	—
U52	5U4G	—	Vacuum bi-phase half-wave ...	Filament	5·0	2·25	1430	500	770	250	—
U54	—	—	Vacuum bi-phase half-wave ...	Heater	5·0	2·8	1250	500	1500	250	—
U78	6X4	EZ90	Vacuum bi-phase half-wave ...	Heater	6·3	0·6	1250	325	210	70	—
U709	—	EZ81	Vacuum bi-phase half-wave ...	Heater	6·3	0·95	1000	350	450	150	—

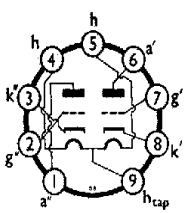
*Only when PIV exceeds 5kV.

BARRETTERS (Base : E.S. ; Max. length : 123·5 mm ; Max. diameter : 57 mm)

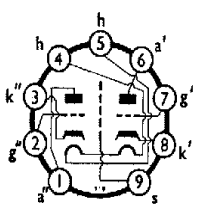
303 : 0·3A, 86-129V. **304** : 0·3A, 95-165V. **305** : 0·3A, 40-90V.



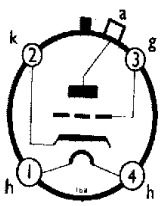
B65
Base : Octal



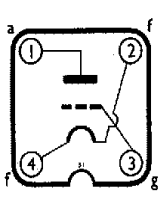
B309, B329, B339
Base : B9A



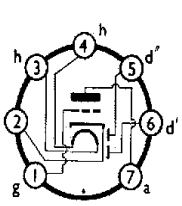
B719
Base : B9A



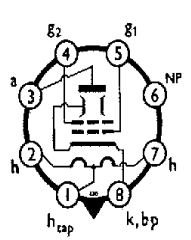
DA42
Base : Med. 4-pin Bayonet



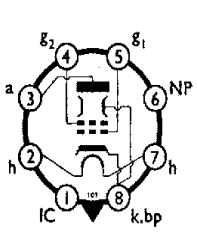
DA100
Base : Special



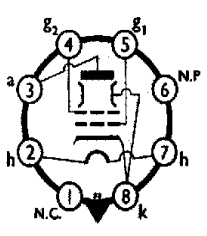
DH77
Base : B7G



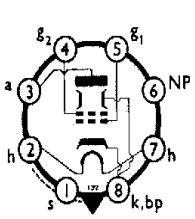
KT33C
Base : Octal



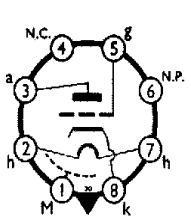
KT55
Base : Octal



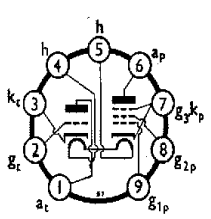
KT61, KT66
Base : Octal



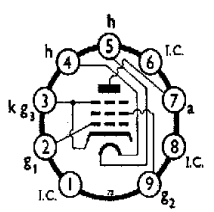
KT88
Base : Octal



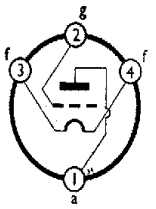
L63
Base : Octal



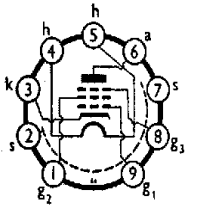
LN309
Base : B9A



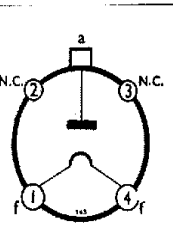
N709
Base : B9A



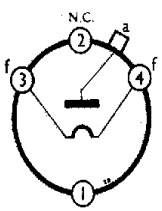
V1505
Base : Special



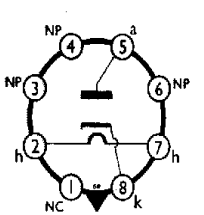
Z729
Base : B9A



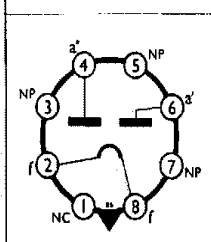
GXU1
Base : Med. 4-pin (UX4)



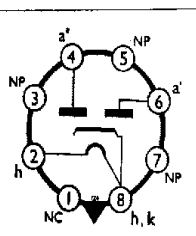
GXU50, U19
Base : B4



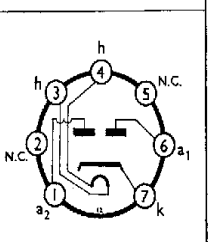
U31
Base : Octal



U50, U52
Base : Octal

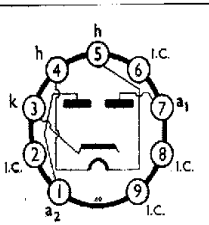


U54
Base : Octal



U78
Base : B7G

Viewed from underside of base



U709
Base : B9A

B4 : British 4-pin
B7G : All glass (Button)
B9A : All glass (Noval)