

211 Vacuum Tube

Classification-column type bulb of glass, a four-prong bayonet pin tube, oxide coated filamentary triode.

Application-Audio power amplifier Class A or Class B or Class C .

Dimensions-Dimensions, outline diagrams of the tube and bases, and the arrangement of electrode connections to the base terminals are shown in Figures 1,2 and 3.

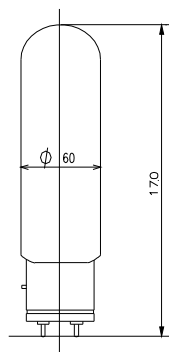


Fig.1



Fig.2

Nominal operating conditions and parameters

Filament voltage.....	11V
Nominal filament current.....	0.7 A
Plate voltage.....	1250 V
Grid voltage.....	-70 V
Plate current.....	100 mA
Amplification factor.....	12
Load resistance.....	7 kohms
Output power.....	10W

Suggest operating conditions and parameters

Class A power amplifier of single tube

Plate voltage	750	1000	1250	V
Grid voltage	-46	-61	-80	V
Load resistance.....	8.8	7.6	9.2	kohms
Plate current	34	53	60	mA

Signal voltage(pk)	41	56	75	V
Plate resistance.....	4.4	3.8	3.6	kohms
Output power	5.6	12	19.7	W

Class B power amplifier of push-pull

Plate voltage	1000	1250	V
Grid voltage	-72	-95	V
Load resistance	6.9	9	kohms
Plate current(0 single)	20	20	mA
Plate current(max.single).....	320	320	mA
Signal voltage(pk)	380	410	V
Output power	200	260	W

Class B power amplifier of single tube(modulate coefficient shall be 1)

Plate voltage	1000	1250	V
Grid voltage	-72	-95	V
Plate current	130	106	mA
Signal voltage(pk).....	125	125	V
Output powe	40	42	W
Grid current(approx).....	5	1	mA
Grid power(input)(approx) ...	10	7.5	W

Class C power amplifier of single tube(max. modulate coefficient shall be 1)

Plate voltage	750	1000	V
Grid voltage	-200	-260	V
Plate current	150	150	mA
Signal voltage(pk).....	350	410	V
Output powe	65	100	W
Grid current(approx).....	35	35	mA
Grid power(input)(approx) ...	12	14	W

Limiting Operation Conditions for Safe Nor-nor simultaneous ratings

	Class A	push-pull	Class B	Class B	Class C
Maximum plate voltage	1250	1250	1250	1000	volts
Maximum plate dissipation	75	100	100	67	watts
Maximum plate current	-	175	150	175	mA
(max. sig per tube)					

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Maximum Grid current - - - 50 mA