from JEDEC release #4316, June 24, 1963

Amperex

2HR8
4HR8

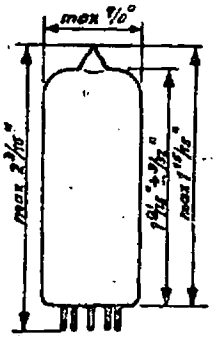
DESCRIPTION

Pentode for use in transitron circuits in television receivers.

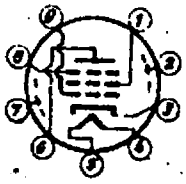
MECHANICAL DATA

Cathode	coated, unipotential
Outline	6-2
Bulb	T6½
Base	E9-1
Basing	9 BJ
Mounting position	any

Tube outline



Bottom view of base



Base pin No.	*Element*
1	Grid No.2
2	Internal shield
3	Cathode
4	Heater
5	Heater
6	Plate
7	Internal shield
8	Grid No.3
9	Grid No.1

HEATER DATA	*2HR8*	*4HR8*	
Heater voltage	2.5	4.5	V
Heater current	0.6	0.3	A

DIRECT INTERELECTRODE CAPACITANCES

Grid No.1 to all other elements except plate		3.5	μμF
Plate to all other elements except grid No.1		5.0	μμF
Plate to grid No.1	max.	0.05	μμF
Grid No.1 to heater	max.	0.003	μμF

MAXIMUM RATINGS (design centre values)

Plate voltage	max.	300	V
Plate voltage without current	max.	550	V
Plate dissipation	max.	1	W
Grid No.2 voltage	max.	200	V
Grid No.2 voltage without current	max.	550	V
Grid No.2 dissipation	max.	0.2	W
Cathode current	max.	4	mA
Peak cathode current	max.	25	mA [1])
Grid No.1 circuit resistance at a plate dissipation less than 0.2 W	max.	10	MΩ
Grid No.1 circuit resistance at a plate dissipation higher than 0.2 W	max.	3	MΩ
Grid No.3 circuit resistance	max.	0.1	MΩ
Voltage between heater and cathode	max.	100	V
Circuit resistance between heater and cathode	max.	20.000	Ω

[1]) Max. pulse duration 4% of a cycle with a maximum of [illegible] Max. 2063

TYPICAL CHARACTERISTICS

Plate voltage	100	250	V
Grid No.3 voltage	-30	0	V
Grid No.2 voltage	35	140	V
Grid No.1 voltage	0	-2	V
Plate current	< 0.01	3	mA
Grid No.2 current		0.6	mA
Transconductance		2000	μU
Plate resistance		2.5	MΩ
Amplification factor of grid No.2 with respect to grid No.1		38	