

KT90 EH

Electrical data

Cathode	Oxide, indirect heating
Heater current (at heater voltage = 6.3v)	1.6 ±0.1 A
Plate current	140 ± 25mA *
2 nd grid current	Less or equal 14 mA *
Transconductance	More or equal 12 mA/V *
Grid 1 reverse current	Less or equal 0.5 mA *
Grid 1 locking voltage	Less or equal 42 V**
Cathode to heater leakage current	Less or equal 30 mA***
Output power	More or equal 12.0 W****
Non-linear harmonic distortion coefficient	Less or equal 14 % ****

Comments:

* $U_h = 6.3V$; $U_p = 250V$; $U_{g_2} = 250V$; $U_{g_1} = -14V$, $R_{g_1} = 0.5 \text{ MOhm}$

** $U_h = 6.3V$; $U_p = 250V$; $U_{g_2} = 250V$; $I_p = 1mA$

*** $U_h = 6.3V$; $U_{c-h} = \pm 300V$

**** $U_h = 6.3V$; $U_p = 250V$; $U_{g_2} = 250V$; $U_{g_1} = -14V$, $R_p = 2 \text{ KOhm}$; $U_{g_1 \sim \text{eff.}} = 9.9V$

Mechanical data

Envelope	Glass balloon
Base	Octal, 8 pins
Operating position	Any
Dimensions:	
Maximum height	125 mm
Max.diameter	39 mm

Limited values

	min	max
Heater voltage	6.0V	6.6 V
Plate voltage		850 V
2 nd grid voltage		650 V
1 st grid negative voltage (max)		200 V
Cathode current		230 mA
Plate dissipation power		46 W
2 nd grid dissipation power		8 W
Cathode to heater voltage:		
Positive		300 V
Negative		300 V