

TESLA RE 40 AK / KT 88

BEAM TETRODE manufactured by Tesla Vršovice s.r.o. Czech Republic

Brief data

The RE 40 AK has a designed maximum anode dissipation rating of 35 W and is recommended for use in the output stage of an a.f. amplifier. Two valves in class AB1 gives a continuous output of up to 100W. The RE 40 AK is also suitable for use as a series regulator valve in stabilized power supply.

The RE 40 AK is a commercial version of the KT 88 and is similar to the 6550.



Heater

Vh	6,3	V
Ih	1,6	A

Maximum ratings

Va	800	V
Vg2	600	V
Va, g2	600	V
-Vg1	200	V
Pa	35	W
Pg2	6	W
Pa+g2	40	W
Ik	230	mA
Vh-k	200	V
Tbulb	250	°C

Capacitances, triode connection

Cg-a, g2	7,9	pF
Cg-all, less a, g2	9,8	pF
Ca, g2- all less g1	17	pF

Capacitances, tetrode connection

Cg-a	1,3	pF
Cg-all, less a	17	pF
Ca, g2- all less g1	12	pF

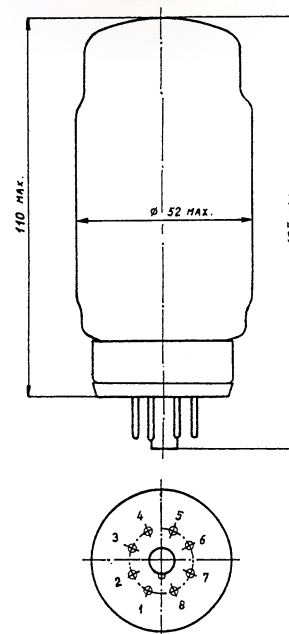
Base: metal shell wafer octal

Pin 1	base shell	5	g1
2	h	6	-
3	a	7	h
4	g2	8	k

Dimensions are in mm and are maximum.

Installation

It is recommended to mount the tube vertically. In this position should be the tube sockets not less than 4 inches apart and pins 4 and 8 of each tube in line. Free air circulation around the tube is necessary for sufficient cooling.



A hand written test report



Push-Pull, Class AB1, Cathode Bias, Ultra Linear Connexion (40% tapping points)

Vag2(b)	500	375	V
Vag2(o)	436	328	V
Ia+g2(o)	2 x 87	2 x 87	mA
Ia+g2(max.sig)	2 x 99	2 x 96	mA
RL (a-a)	6	5	kΩ
*Rk	2 x 600	2 x 400	Ω
-Vg1 (approx.)	52	35	V
Pout	50	30	W
Dtot	1,5	1	%
I.M.D	4	3	%
Wa+g2(o)	2 x 38	2 x 28,5	W
Wa+g2(max.sig)	2 x 17	2 x 16	W
Vg1-g1 ac	104	71	V
Zout	4,8	4,5	kΩ

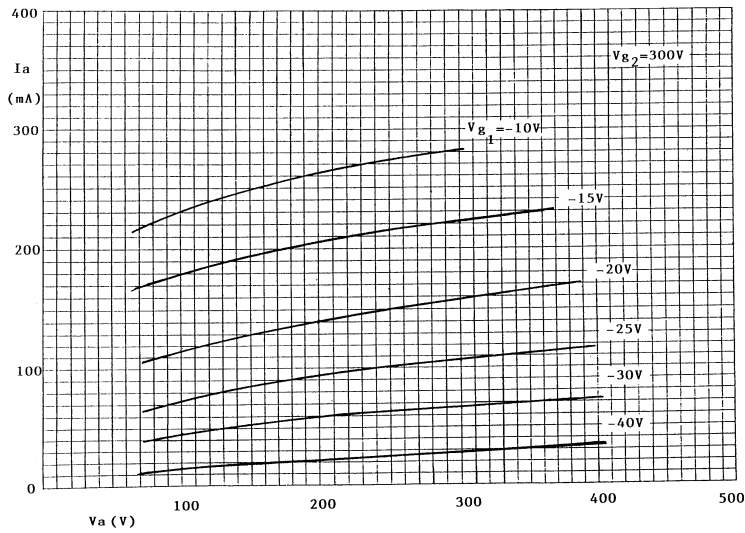
Push-Pull, Class AB1, Cathode Bias, Triode Connexion

Vag2(b)	400	485	V
Vag2(o)	349	422	V
Ia+g2(o)	2 x 76	2 x 94	mA
Ia+g2(max.sig)	2 x 80	2 x 101	mA
RL (a-a)	4	4	kΩ
Rk	2 x 525	2 x 525	Ω
-Vg1 (approx.)	40	50	V
Pout	17	31	W
Dtot	1,5	1,5	%
I.M.D	5,6	5,6	%
Wa+g2(o)	2 x 26,5	2 x 40	W
Wa+g2(max.sig)	2 x 19	2 x 27	W
Vg1-g1 ac	78	114	V
Zout	4,8	4,5	kΩ

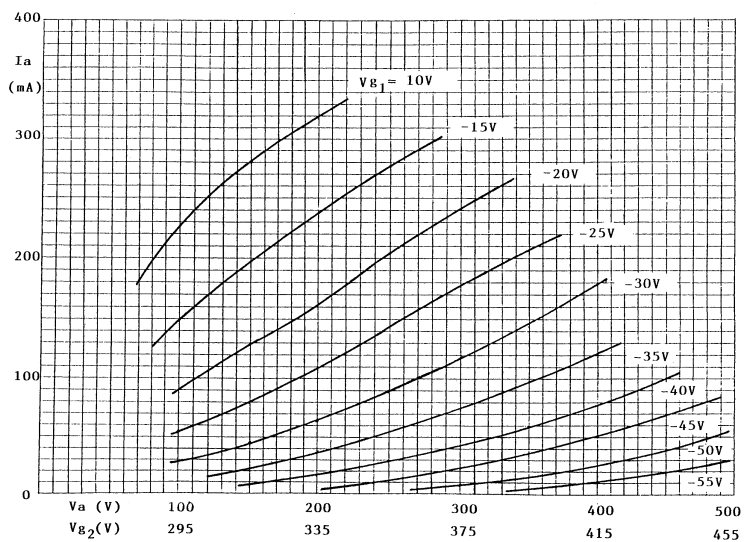
* It is essential to use two separate cathode bias resistors. I.M.D intermodulation distortion measured using two input signals at 50 and 6000 Hz (ratio of amplitudes 4:1).

Retail sales agent:

Importer:



ULTRA-LINEAR CONNECTION



TRIODE CONNECTION

