

The 6928 is intended for use in medium power applications, where very long life with low probability of failure is desired. It is especially designed for dependable service under vibration conditions. When such a tube is desired as a replacement for the types 6AQ5 and 6005, the 6928 is most suitable within its ratings.

When used under the conditions stated below the average life is warranted to be more than 10,000 hours.

Reference is made to "information about L M Ericsson longlife tubes".

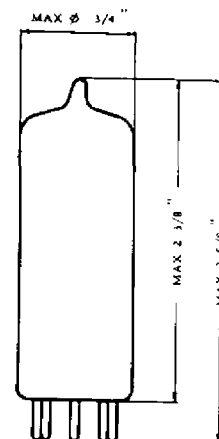
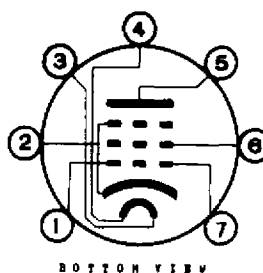
MECHANICAL DATA

Base: Small Button Miniature 7-pin, RETMA No. E7-1

Bulb: T 5 1/2

Mounting Position: Any

Pin No	Connected to
1.	Grid No 1
2.	Cathode and Grid No 3
3.	Heater
4.	Heater
5.	Plate
6.	Grid No 2
7.	Grid No 1



CAPACITANCES

WITH SHIELD*

WITHOUT SHIELD

Grid No 1 to Plate	0.17	0.35	uuF
Input	8.0	7.6	uuF
Output	11.0	6.0	uuF

RANGE VALUES FOR CAPACITANCES MIN

AVE

MAX

Grid No 1 to Plate	-	0.17	0.35	uuF
Input	6.4	8.0	9.6	uuF
Output	8.8	11.0	13.2	uuF

MAXIMUM RATINGS

Plate Voltage	200	volts
Grid No 2 Voltage	200	volts
Plate Dissipation	8	watts
Grid No 2 Dissipation	1	watt
Heater - Cathode Voltage	90	volts
Bulb Temperature (at hottest point)	200	°C
Grid No 1 Circuit Resistance	0.5	megohm

* Close-fitting external shield connected to pin No. 2

from JETEC release #1756, Oct. 15, 1956

TYPICAL OPERATION

Heater Voltage**	6.3 $\pm$ 5%	6.3 $\pm$ 5%	volts
Heater Current	0.360	0.360	amp
Plate Supply Voltage	130	180	volts
Grid No 2 Supply Voltage	130	180	volts
Cathode Bias Resistor	200	220	ohms
Plate Current	23	32.5	milliamps
Grid No 2 Current	2	3	milliamps
Plate Resistance	80,000	80,000	ohms
Transconductance	3400	3900	umhos
Amplification Factor Grid No 2 to 1	10	10	
Load Resistance	6000	6000	ohms
Power Output	1.0	2.1	watts
Total Distortion	7	8	%

OPERATION RANGE VALUES

Heater Voltage	6.3			volts
Plate Supply Voltage	130			volts
Grid No 2 Supply Voltage	130			volts
Cathode Bias Resistor	200			ohms
	MIN	AVE	MAX	
Heater Current	320	360	400	milliamps
Plate Current	16	23	30	milliamps
Grid No 2 Current	-	-	5.5	milliamps
Transconductance	2600	3400	4200	umhos
Transconductance, End of Life Point ⁺	2200	-	-	umhos
Insulation Current Heater to Cathode				
at $E_{hk} = \pm 100$ volts	-	-	50	uamps
Grid No 1 Current	-	-	- 1	uamp
Cutoff Plate Current at Grid No. 1				
Voltage = - 40 volts	-	-	0.2	milliamp
Vibration Output at 2.5 g and 25 c/s				
($R_p = 2,000$ ohms)	-	50	-	millivolts

** As the life of the tube partly depends on the cathode temperature it is advised to keep the heater voltage within close limits. An Average Life of 10,000 hours is warranted provided that the heater voltage is kept within the given tolerance $\pm$ 5%.

⁺ In view of warranty, the life of a tube corresponds to the time a tube has been operating until the transconductance has decreased to the End of Life Point. The average life for a group of tubes is defined as the total life of the group divided by the number of tubes in the group.