

TWIN TRIODE DEPENDABLE LONGLIFETYPE

The 6927 is suitable for use as highfrequency amplifier, oscillator or mixer. With the grids in push-pull and the plates connected in parallel the tube may be used as a mixer at frequencies as high as 600 Mc/s. It is intended for use in equipments, requiring very long life with low probability of failure and is especially designed for dependable service under vibration conditions. When such a tube is desired as a replacement for the commercial type 6J6, the type 6927 is very 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

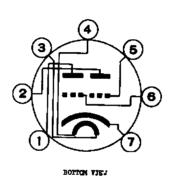
Base: Small Button Miniature 7-pin, RETMA No. E7-1

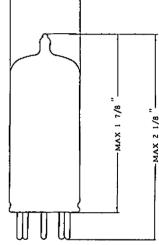
Bulb: T 5 1/2

Mounting Position: Any

Pin No Connected to

- 1. Plate of Section 2
- 2. Plate of Section 1
- 3. Heater
- 4. Heater
- 5. Grid of Section 1
- 6. Grid of Section 2
- 7. Cathode





CAPACITANCES	WITH SHIELD	WITHOUT SHIELD		
Grid to Plate, each Section. Input, each Section Output, Section 1 Output, Section 2	2.6 1.6	1.5 2.0 0.45 0.40		uuF uuF uuF uuF
RANGE VALUES FOR CAPACITUM WITHOUT SHIELD	TANCES MIN	AVE	MAX	
Grid to Plate, each Section	1.4 0.25			uuF uuF uuF

^{*} Close-fitting external shield connected to pin No. 7.

from JETEC release #1756, Oct. 15, 1956

R 10191

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MAXIMUM RATINGS (EACH SECTION)								
Plate Voltage		200 15 1.3 90 150 0.5		volts milliamps watt volts C megohm				
TYPICAL OPERATION (EACH SECTION)								
Heater Voltage Heater Current Plate Supply Voltage Cathode Bias Resistor Plate Current Plate Resistance Transconductance Equivalent Noise Resistance	6.3 ± 5 0.330 100 68 6.5 7500 5000 500	5%	6.3 ± 5% 0.330 130 100 7.7 7200 5300 470	volts amp volts ohms milliamps ohms umhos ohms				
OPERATION RANGE VALUES (EACH SECTION)								
Heater Voltage		6.3 130 100		volts volts ohms				
	MIN	AVE	MAX					
Heater Current	295 4.7 4200 3600	330 7.7 5300	365 10.7 6400	milliamps milliamps umhos umhos				
at E _{hk} = - 100 volts · · · · ·	-	-	20	uamps				
Grid Current	-	-	- 0.5	uamp				
Cutoff Plate Current at Grid Voltage = - 15 volts	-		0.2	milliamp				
Vibration Output at 2.5 g and 25 c/s $R_p = 2,000$ ohms (both Sections)	-	10	-	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 - 5%.

Value is for both Sections operating as specified.

⁺ 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.