

Twin triode with common cathode for use as high frequency amplifier, oscillator or mixer. With the grids in push-pull and plates connected in parallel the tube may be used as a mixer at frequencies as high as 600 Mc.

COLD CAPACITANCES (without external shield)

Input, Each Section	2.0	$\mu\mu\text{F}$
Output, Section 1	.45	$\mu\mu\text{F}$
Output, Section 2	.40	$\mu\mu\text{F}$
Plate to Grid, Each Section	1.5	$\mu\mu\text{F}$

ABSOLUTE MAXIMUM RATINGS (each section)

Plate Voltage	220	volts
Grid Voltage, positive value	+ 5	volts
Cathode Current	17	ma
Plate Dissipation	1.4	watts
Heater — Cathode Voltage	100	volts
Bulb Temperature, at hottest point	160	$^{\circ}\text{C}$
Grid Circuit Resistance, Cathode Bias	.5	Mohm

MECHANICAL DATA

Base: Small Button Miniature 7-pin,

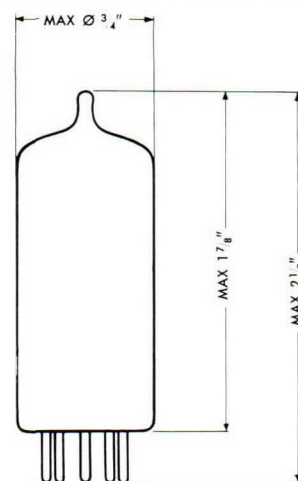
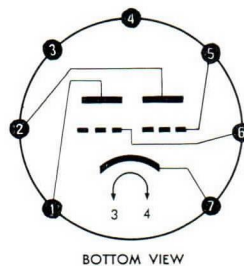
RETMA E7-1

Bulb: EIA T 5½

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



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TWIN TRIODE

Ericsson
LM

TYPICAL OPERATION. CLASS A₁. (each section)

Heater Voltage	6.3	6.3	volts
Heater Current	.33	.33	amp
Plate Supply Voltage	100	130	volts
Cathode Bias Resistor (value is for both sections operating as specified)	68	100	ohms
Plate Current	6.5	7.7	ma
Transconductance	5000	5300	μ mhos
Amplification Factor	38	38	
Plate Resistance	7500	7200	ohms
Equivalent Noise Resistance	500	470	ohms

OPERATION RANGE VALUES (each section)

Heater Voltage		6.3		volts
Plate Supply Voltage		130		volts
Cathode Bias Resistor (value is for both sections operating as specified)		100		ohms
	MIN	AVE	MAX	
Heater Current	295	330	365	ma
Plate Current	4.7	7.7	10.7	ma
Transconductance	4200	5300	6400	μ mhos
Transconductance, End of Life Point	3600			μ mhos
I_{hk} at $E_{hk} = \pm 100$ volts			20	μ a
Grid Current			-.5	μ a
Cutoff Plate Current at $E_{c1} = -15$ volts			200	μ a

AVERAGE CHARACTERISTICS

