RF AMPLIFIER TETRODE

6EV5 CATV

6EV5/CATV is an especially developed longlife version of 6EV5. It is a sharp-cutoff tetrode of 7-pin miniature type, intended for reliable service within the wide range of amplifiers and other equipment used for CATV purposes.

COLD CAPACITANCES (external shield connected to cathode)

Grid No 1 to Plate	0.025	$\mu\mu$F
Input	4.4	$\mu\mu$F
Output	2.6	$\mu\mu$F

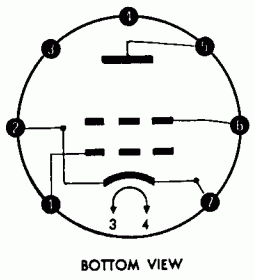
ABSOLUTE MAXIMUM RATINGS

Plate Voltage	300	volts
Grid No 2 Voltage	200	volts
Grid No 1 Voltage, Positive Value	5	volts
Grid No 1 Voltage, Negative Value	50	volts
Plate Dissipation	3.5	watts
Grid No 2 Dissipation (see Section A)	0.25	watt
Cathode Current	22	ma
Heater-Cathode Voltage	100	volts
Grid No 1 Circuit Resistance	0.5	megohm

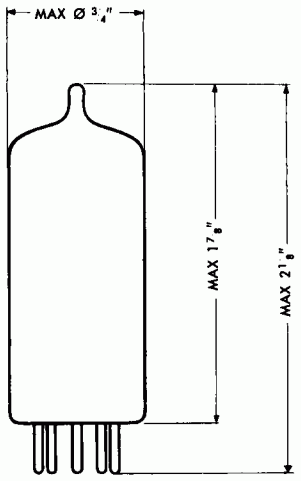
MECHANICAL DATA

Base: Small Button Miniature 7-pin, RETMA E7-1
Bulb: EIA T 5½
Mounting Position: Any

PIN NO.	CONNECTED TO
1.	Grid No 1
2.	Cathode, Int. Shield
3.	Heater
4.	Heater
5.	Plate
6.	Grid No 2
7.	Cathode, Int. Shield



BOTTOM VIEW



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TYPICAL OPERATION

Heater Voltage	6.3	volts
Heater Current	200	ma
Plate Voltage	250	volts
Grid No 2 Voltage	80	volts
Grid No 1 Voltage	— 1	volt
Plate Current	11.5	ma
Grid No 2 Current	0.9	ma
Transconductance	8800	μmhos
Plate Resistance	0.15	Mohm
Grid No 1 Voltage for Gm = 100 μmhos	— 4.5	volts

OPERATION RANGE VALUES

Heater Voltage		6.3		volts
Plate Supply Voltage		250		volts
Grid No 2 Supply Voltage		80		volts
Grid No 1 Voltage		— 1		volts
	MIN	AVE	MAX	
Heater Current	185	200	215	ma
Plate Curren	8.0	11.5	14.0	ma
Grid No 2 Current		0.9	1.8	ma
Transconductance	7000	8800	11000	μmhos
Transconductance, End of Life Point	5750			μmhos
I_{hk} at E_{hk} = ± 100 volts			20	μa
Grid No 1 Current			— .5	μa
Cutoff Plate Current at E_{c1} = — 6 volts			200	μa

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