

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	$\mu\mu\text{F}$
Input	4.4	$\mu\mu\text{F}$
Output	2.6	$\mu\mu\text{F}$

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

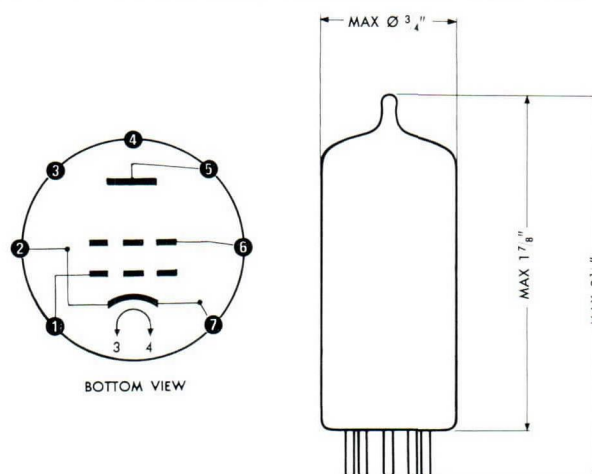
Base: Small Button Miniature 7-pin,
RETMA E7-1

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



6EV5

CATV

RF AMPLIFIER TETRODE



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	μ mhos
Plate Resistance	0.15	Mohm
Grid No 1 Voltage for $G_m = 100 \mu$ mhos	— 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 Current	8.0	11.5	14.0	ma
Grid No 2 Current		0.9	1.8	ma
Transconductance	7000	8800	11000	μ mhos
Transconductance, End of Life Point	5750			μ mhos
I_{hk} at $E_{hk} = \pm 100$ volts			20	μ a
Grid No 1 Current			— .5	μ a
Cutoff Plate Current at $E_{c1} = - 6$ volts			200	μ a