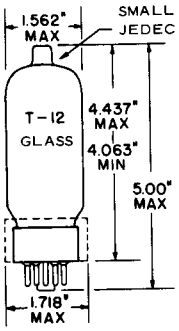
TUNG-SOL

BEAM POWER PENTODE

OUTLINE DRAWING

JEDEC 12-36



SHORT JUMBO-SHELL
OCTAL 8 PIN BASE
JEDEC B8-71
OR
MEDIUM-SHELL
OCTAL 8 PIN BASE
JEDEC B8-118

FOR

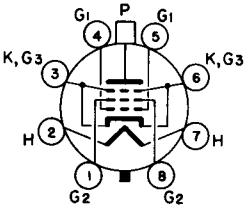
COLOR T.V. RECEIVERS

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION

BASING DIAGRAM

JEDEC 8GD



BOTTOM VIEW

THE 6CB5A IS A HIGH PERVENCE BEAM POWER PENTODE IN A T-12 GLASS ENVELOPE. IT IS DESIGNED ESPECIALLY FOR USE AS A HORIZONTAL-DEFLECTION AMPLIFIER IN COLOR TELEVISION RECEIVERS. THE 6CB5A IS UNILATERALLY INTERCHANGEABLE WITH THE 6CB5.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

GRID 1 TO PLATE	0.4	pf
GRID 1 TO CATHODE AND GRID 3, GRID 2, AND HEATER	22	pf
PLATE TO CATHODE AND GRID 3, GRID 2, AND HEATER	10	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	2.5	AMP.
LIMITS OF APPLIED VOLTAGE		6.3 ± 0.6	VOLTS
PEAK HEATER - CATHODE VOLTAGE			
HEATER NEGATIVE WITH RESPECT TO CATHODE		200	VOLTS
DC COMPONENT		100	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		200	VOLTS

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MAXIMUM RATINGS

DESIGN MAXIMUM RATINGS - SEE EIA STANDARD RS-239

HORIZONTAL - DEFLECTION AMPLIFIER SEE NOTE 1

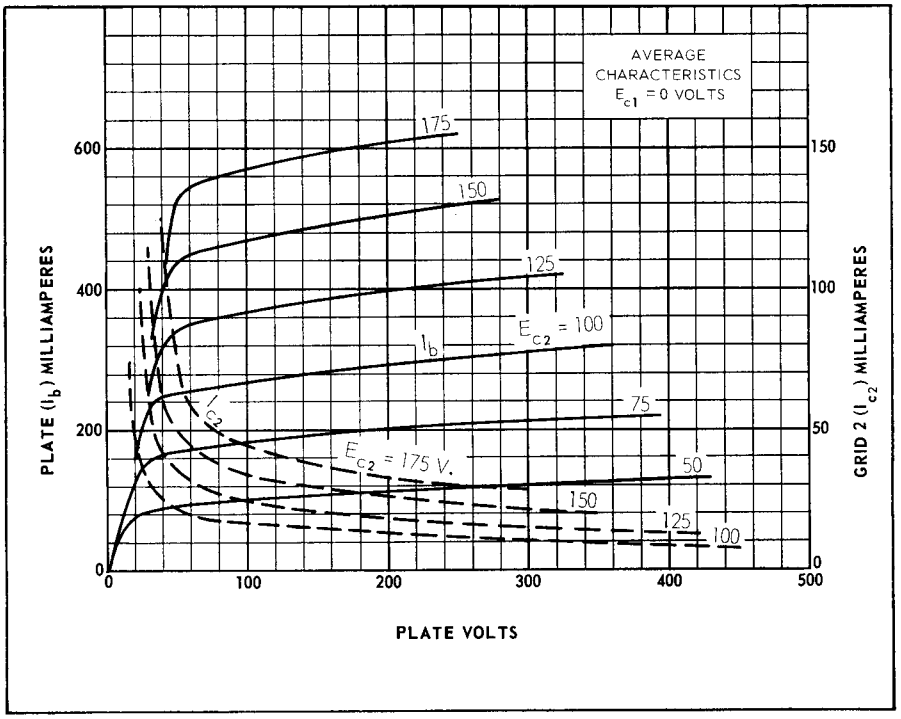
DC PLATE VOLTAGE - INCLUDING BOOST	880	VOLTS
PEAK POSITIVE - PULSE PLATE VOLTAGE	6,800	VOLTS
PEAK NEGATIVE - PULSE PLATE VOLTAGE	1,650	VOLTS
DC GRID 2 VOLTAGE	220	VOLTS
DC GRID 1 VOLTAGE	−55	VOLTS
PEAK NEGATIVE - PULSE GRID 1 VOLTAGE	220	VOLTS
PLATE DISSIPATION SEE NOTE 2	26	WATTS
GRID 2 INPUT	4	WATTS
CATHODE CURRENT:		
PEAK	850	mA
DC	240	mA
GRID 1 CIRCUIT RESISTANCE:		
FOR GRID - RESISTOR - BIAS OPERATION	0.47	MEGOHM

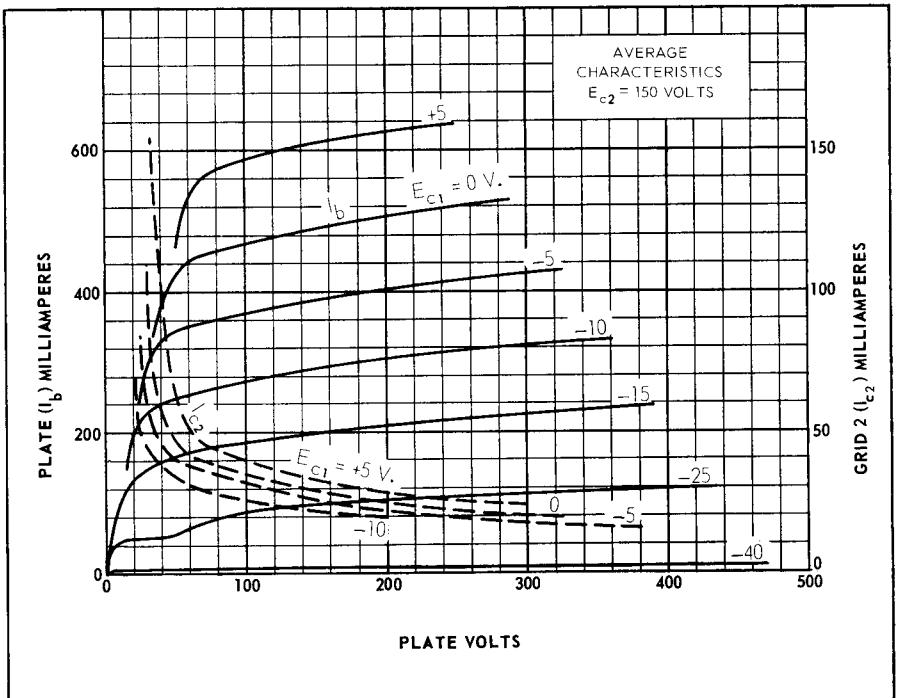
1. FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE CONCERNING TELEVISION BROADCAST STATIONS," FEDERAL COMMUNICATIONS COMMISSION. THE DURATION OF THE VOLTAGE PULSE MUST NOT EXCEED 15 PER CENT OF ONE HORIZONTAL SCANNING CYCLE. IN A 525-LINE, 30-FRAME SYSTEM, 15 PER CENT OF ONE HORIZONTAL SCANNING CYCLE IS 10 μSEC.
2. AN ADEQUATE BIAS RESISTOR OR OTHER MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

CHARACTERISTICS

CLASS A_1 AMPLIFIER

PLATE VOLTAGE	75	175	VOLTS
GRID 2 VOLTAGE	150	175	VOLTS
GRID 1 VOLTAGE	0	−30	VOLTS
PLATE CURRENT	460	90	mA
GRID 2 CURRENT	42	6	mA
TRANSCONDUCTANCE	--	8,800	μMHOS
MU FACTOR, GRID 2 TO GRID 1	–	3.8	
PLATE RESISTANCE	–	Approx.5,000	OHMS
GRID 1 VOLTAGE FOR I_b = 1mA	–	Approx. −60	VOLTS





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