

DUAL-CONTROL SHARP-CUTOFF PENTODE TYPE 6DB6

The 6DB6 is a 7-pin miniature dual-control sharp-cutoff pentode designed for service as a color demodulator in television receivers. The sharp-cutoff characteristic of grid 3 and the high grid 1 and grid 3 to plate transconductance make this tube ideal for gating, mixing and sync separator applications also.

GENERAL DATA

ELECTRICAL:

Cathode	Coated Unipotential	
Heater:		
Voltage (ac or dc)	6.3	Volts
Current	0.3	Ampere
Direct Interelectrode Capacitances (Unshielded):		
Grid 1 to Plate	0.0035	uuf
Grid 3 to Plate	1.5	uuf
Grid 1 Input	6.0	uuf
Output	5.0	uuf
Grid 3 to All Other Elements ..	3.0	uuf
Coupling (Grid 1 to Grid 3) ..	0.09	uuf

MECHANICAL:

Bulb	T-5-1/2
Base	Miniature 7-Pin (JETEC E7-1)
Outline	5-2
Basing	7EN
Mounting Position	Any

CHARACTERISTICS

Plate Voltage	150	Volts
Grid 2 (Screen) Voltage	150	Volts
Grid 3 Voltage	-3.0	Volts
Grid 1 Voltage	*-1.0	Volts
Plate Resistance	50,000	Ohms
Transconductance:		
Grid 1 to Plate	2050	umhos
Grid 3 to Plate	1000	umhos
Plate Current	5.8	Ma.
Grid 2 Current	6.6	Ma.
Grid 1 Cutoff	-6.5	Volts
Grid 3 Cutoff	-9.5	Volts

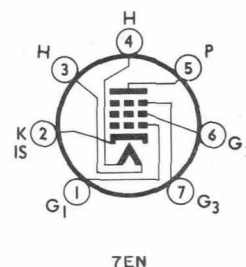
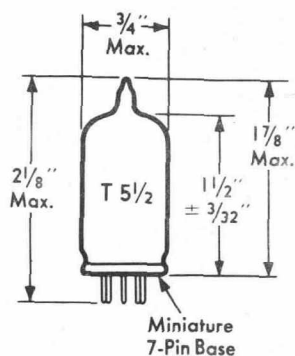
MAXIMUM RATINGS:

Design Center Values

Plate Voltage	300 max. Volts
Grid 2 Supply Voltage	300 max. Volts
Grid 2 Voltage	See Grid 2 Input Rating Chart
Positive Grid 1 Voltage	0 max. Volts
Plate Dissipation	3.0 max. Watts
Grid 2 Dissipation	1.0 max. Watt

Heater-Cathode Voltage:

Heater Positive with Respect to Cathode:	
DC Component	100 max. Volts
Total DC and Peak	200 max. Volts
Heater Negative with Respect to Cathode:	
Total DC and Peak	200 max. Volts



GRID 2 INPUT RATING CURVE

