

6EW6 PENTODE

= DESCRIPTION AND RATING =

The 6EW6 is a miniature, sharp-cutoff pentode designed for intermediatefrequency amplifier service in television receivers. Features of the tube include high transconductance and separate base-pin terminals for the cathode and suppressor.

GENERAL

ELECTRICAL

Cathode—Coated Unipotential Heater Voltage, AC or DC Heater Current	. 6.3 =	± 10%	Volts Amperes
		Withou	
Direct Interelectrode Capacitances		Shield	
Grid-Number 1 to Plate, maximum	0.03	0.04	$\mu\mu f$
Input	10.0	10.0	$\mu\mu f$
Output		2.4	$\mu\mu$ f

MECHANICAL

Mounting Position—Any Envelope—T-5½, Glass Base-E7-1, Miniature-Button 7-Pin

MAXIMUM RATINGS

DESIGN-MAXIMUM VALUES

Plate Voltage 330	Volts
Screen-Supply Voltage	Volts
Screen Voltage—See Screen Raing Chart	
Positive DC Grid-Number 1 Voltage 0	Volts
Plate Dissipation	
Screen Dissipation	
Heater-Cathode Voltage	
Heater Positive with Respect to Cathode	
DC Component	Volts
	Volts
Heater Negative with Respect to Cathode	
Total DC and Peak	Volts

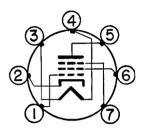
Design-Maximum ratings are limiting values of operating and environmental conditions applicable to a bogey tube of a specified type as defined by its published data, and should not be exceeded under the worst probable conditions.

The tube manufacturer chooses these values to provide acceptable serviceability of the tube, taking responsibility for the effects of changes in operating conditions due to variations in tube characteristics.

The equipment manufacturer should design so that initially and throughout life no design-maximum value for the intended service is exceeded with a bogey tube under the worst probable operating conditions with respect to supply-voltage variation, equipment component variation, equipment control adjustment, load variation, signal variation, and environmental conditions.



BASING DIAGRAM



EIA 7CM

TERMINAL CONNECTIONS

Pin 1—Grid Number 1

Pin 2—Cathode

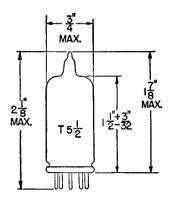
Pin 3—Heater

Pin 4—Heater Pin 5—Plate

Pin 6-Grid Number 2 (Screen)

Pin 7—Internal Shield and Grid Number 3 (Suppressor)

PHYSICAL DIMENSIONS



EIA 5-2

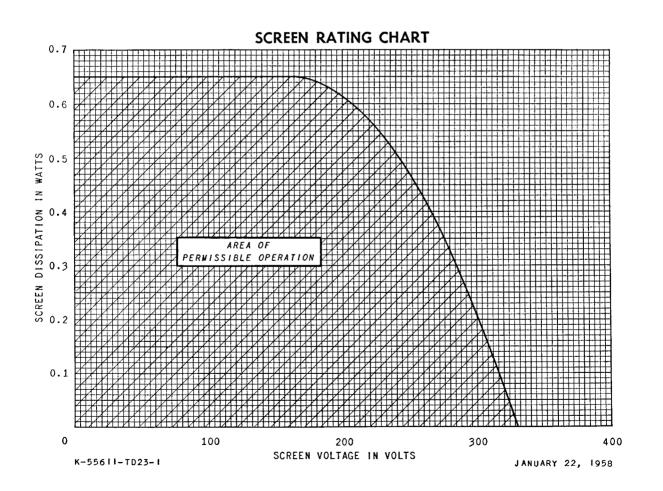


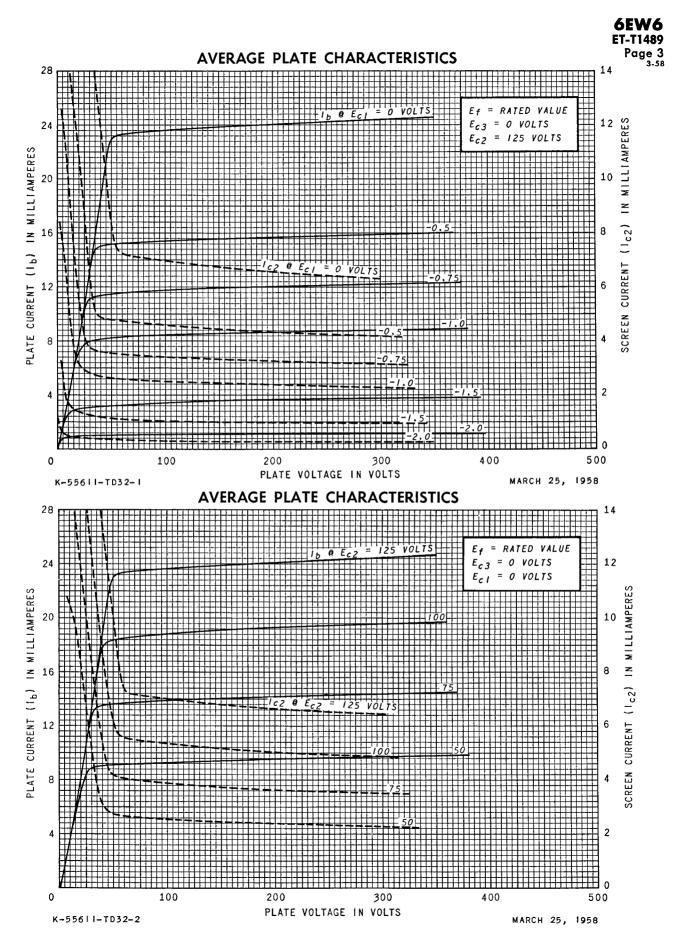
CHARACTERISTICS AND TYPICAL OPERATION

CLASS A		

Plate Voltage	125	Volts
Suppressor, Connected to Cathode at Socket		
Screen Voltage	125	Volts
Cathode-Bias Resistor	56	Ohms
Plate Resistance, approximate		
Transconductance		
Plate Current	11	Milliamperes
Screen Current	3.2	Milliamperes
Grid-Number 1 Voltage, approximate		
Ib = 20 Microamperes	-3.5	Volts

^{*} With external shield (EIA 316) connected to cathode.

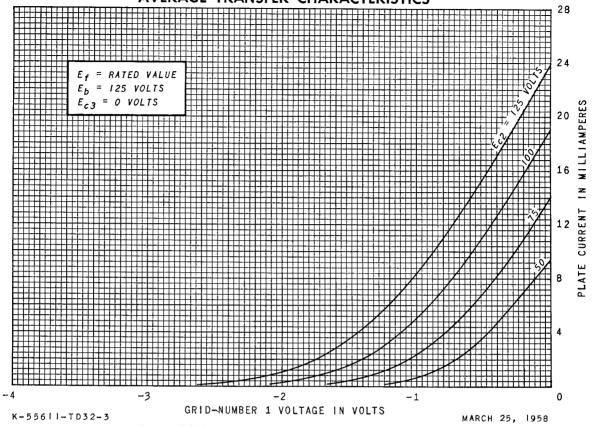




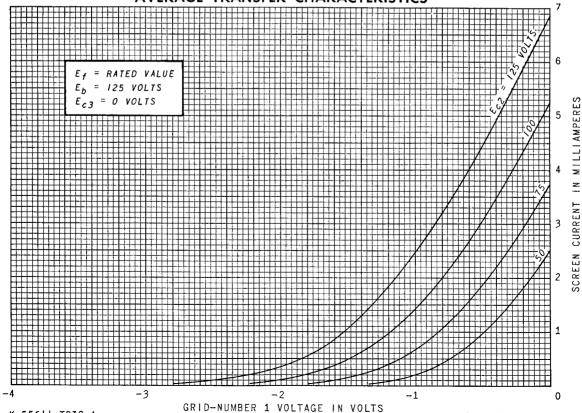


K-55611-TD32-4









MARCH 25, 1958

