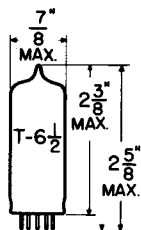


TUNG-SOL

TRIODE
MINIATURE TYPE

GLASS BULB

UNIPOENTIAL CATHODE

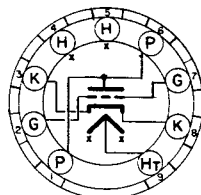
HEATER

PARALLEL

SERIES

6.3±0.3 VOLTS	12.6±0.6 VOLTS
.45 AMP.	.225 AMP.

ANY MOUNTING POSITION


BOTTOM VIEW
 MINIATURE BUTTON
 9 PIN BASE
 9MX

THE 7719 IS A SINGLE INDIRECTLY HEATED HIGH PERVEANCE TRIODE INTENDED FOR COMPUTER APPLICATIONS. THE CATHODE MATERIAL IS CHOSEN TO MINIMIZE THE DEVELOPMENT OF INTERFACE IMPEDANCE.

DIRECT INTERELECTRODE CAPACITANCES — APPROX.
 WITHOUT EXTERNAL SHIELD

INPUT	6.5	μuf
OUTPUT	1.0	μuf
GRID TO PLATE	5.5	μuf

RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM^A

HEATER VOLTAGE (SERIES)	12.6±0.6	VOLTS
HEATER VOLTAGE (PARALLEL)	6.3±0.3	VOLTS
MAXIMUM PLATE VOLTAGE	330	VOLTS
MAXIMUM PLATE DISSIPATION	6.0	WATTS
MAXIMUM DC CATHODE CURRENT	40	MA.
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		
DC	100	VOLTS
TOTAL DC AND PEAK	200	VOLTS
MAXIMUM BULB TEMPERATURE	175	°C

AVERAGE CHARACTERISTICS
 CLASS A₁ AMPLIFIER

HEATER VOLTAGE	6.3±0.3	12.6±0.6	VOLTS
HEATER CURRENT	.45 ^B	.225 ^C	AMP.
PLATE VOLTAGE		300	VOLTS
GRID VOLTAGE		-10.5	VOLTS
PLATE CURRENT		4	MA.
AMPLIFICATION FACTOR		25	
TRANSCONDUCTANCE		3500	μMHOS
PLATE RESISTANCE		7100	OHMS
GRID VOLTAGE FOR PLATE CURRENT OF 50μA (APPROX.)		-15	VOLTS

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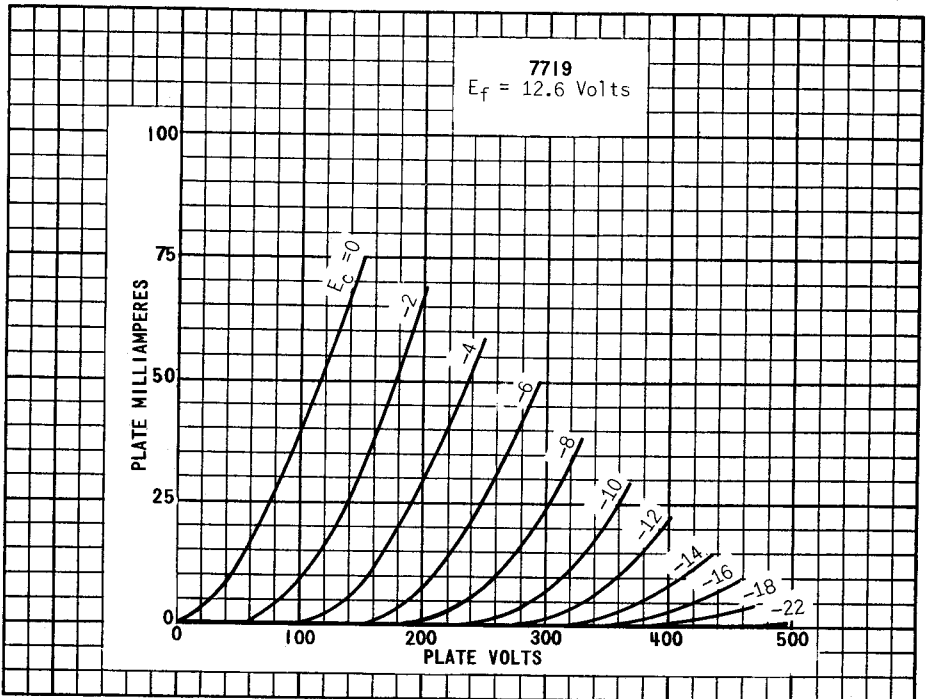
TUNG-SOL

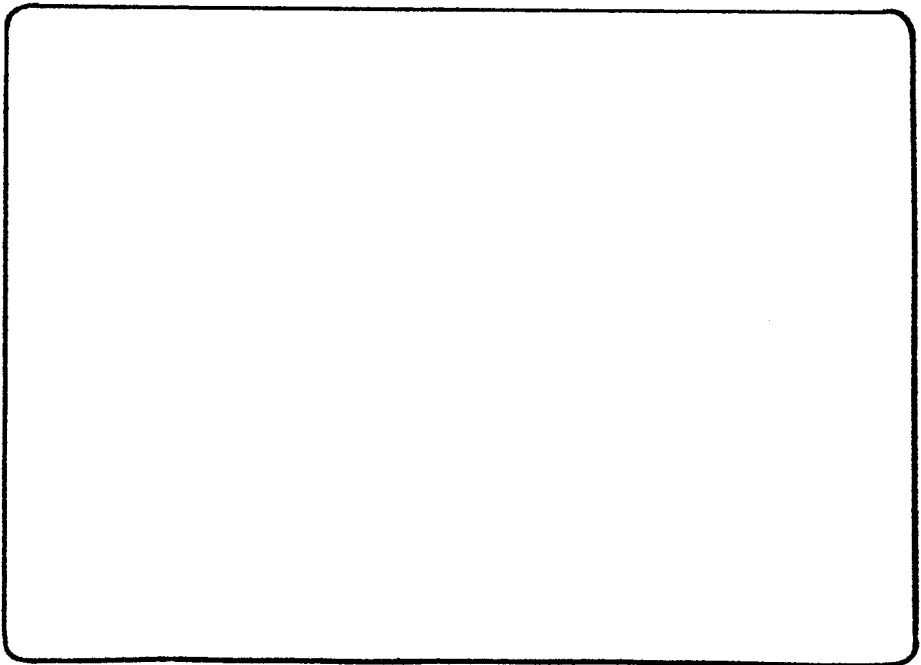
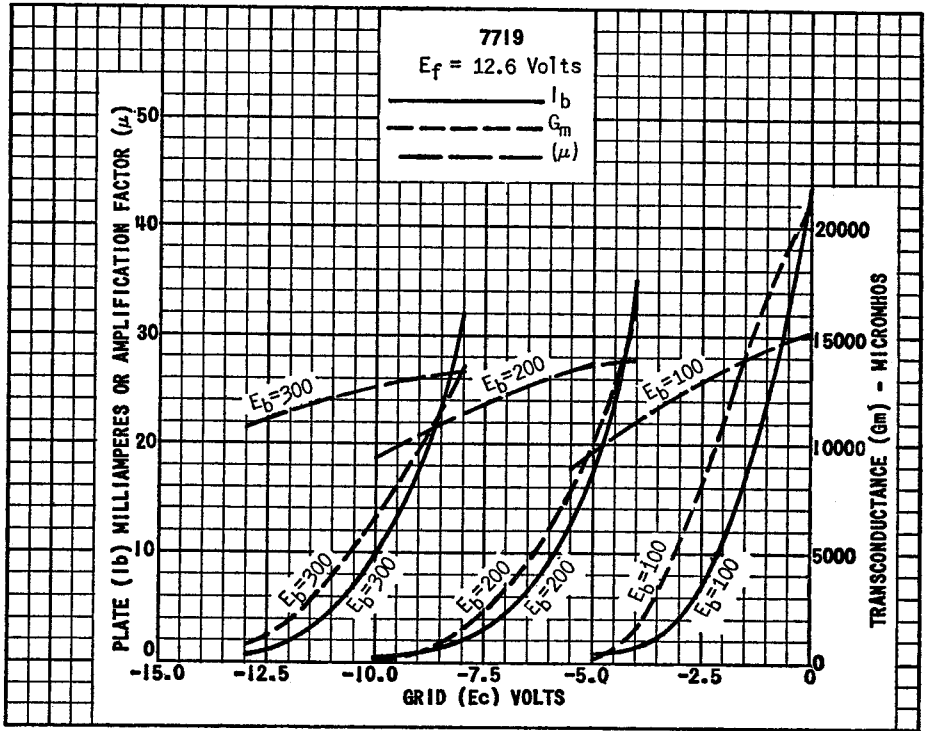
CONTINUED FROM PRECEDING PAGE

^A DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO A BOGEY ELECTRON DEVICE OF A SPECIFIED TYPE AS DEFINED BY ITS PUBLISHED DATA, AND SHOULD NOT BE EXCEEDED UNDER THE WORST PROBABLE CONDITIONS. THE DEVICE MANUFACTURER CHOOSES THESE VALUES TO PROVIDE ACCEPTABLE SERVICEABILITY OF THE DEVICE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CHANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE 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 DEVICE 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.

^B MEASURED AT 6.3 VOLTS.

^C MEASURED AT 12.6 VOLTS.





PRINTED IN U. S. A.