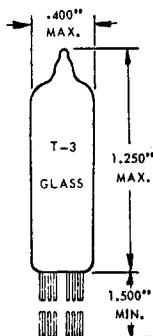
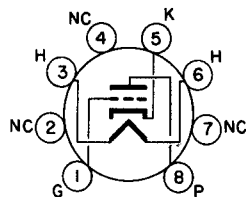


**TUNG-SOL**

TRIODE

SUBMINIATURE

OUTLINE DRAWING  
JEDEC 3-11SUBMINIATURE BUTTON  
8 FLEXIBLE LEADS  
JEDEC E8-10OUTLINE DRAWING  
JEDEC 8DK

BOTTOM VIEW

FOR  
GUIDED MISSILE  
SERVICECOATED UNIPOTENTIAL CATHODE  
ANY MOUNTING POSITION

THE 6946 IS GENERAL PURPOSE MEDIUM- $\mu$  TRIODE IN THE 8 PIN SUBMINIATURE CONSTRUCTION. IT IS DESIGNED SPECIFICALLY FOR GUIDED MISSILE SERVICE. THIS TYPE IS CHARACTERIZED BY STABLE PERFORMANCE IN OPERATION AT HIGH ALTITUDES AND WHERE SEVERE CONDITIONS OF MECHANICAL SHOCK VIBRATION AND HIGH TEMPERATURES ARE ENCOUNTERED.

**DIRECT INTERELECTRODE CAPACITANCES**

WITHOUT EXTERNAL SHIELD

GRID TO PLATE	1.0	pf
INPUT	1.6	pf
OUTPUT	0.75	pf

**HEATER CHARACTERISTICS AND RATINGS**

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	175	mA
LIMITS OF APPLIED VOLTAGE		5.5 TO 6.9	VOLTS
HEATER-CATHODE VOLTAGE:			
HEATER POSITIVE WITH RESPECT TO CATHODE		200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		200	VOLTS

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**MAXIMUM RATINGS**

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

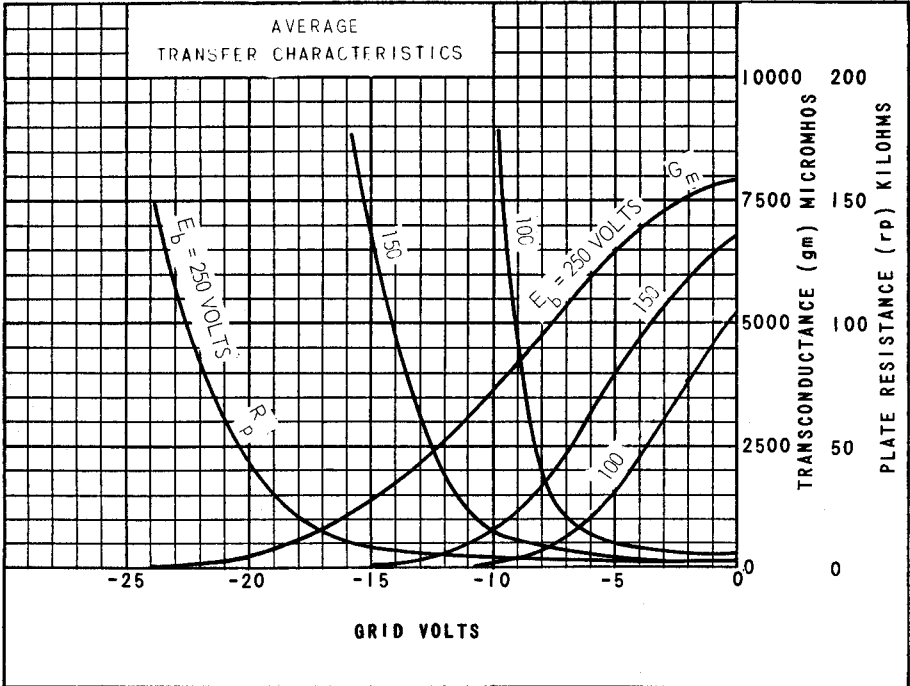
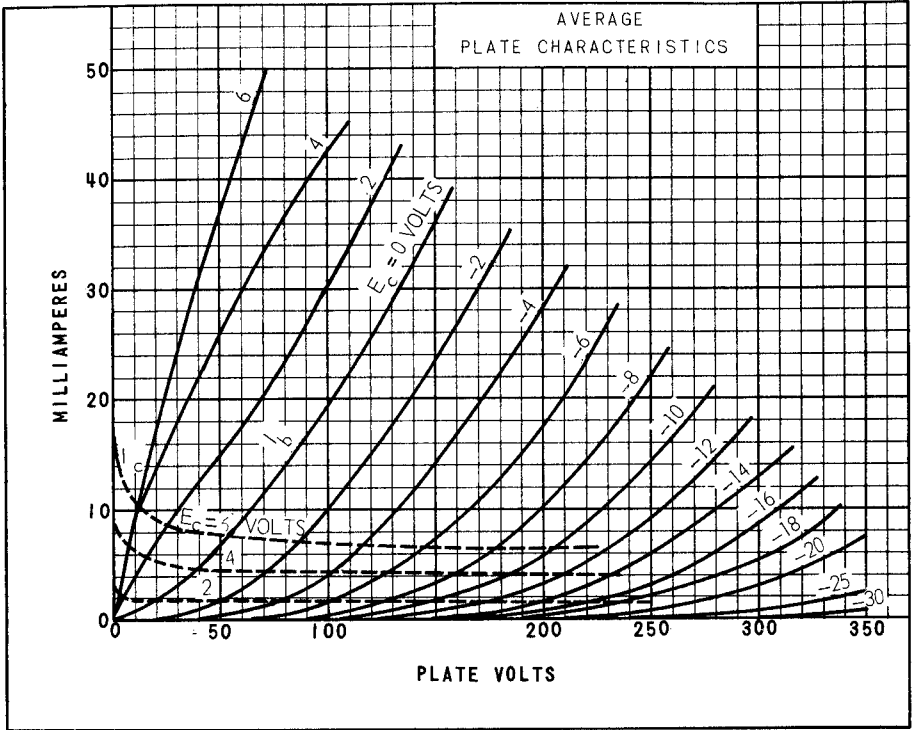
DC PLATE VOLTAGE	250	VOLTS
PEAK-PLATE FORWARD VOLTAGE	360	VOLTS
DC GRID VOLTAGE:		
POSITIVE VALUE	0	VOLTS
NEGATIVE VALUE	55	VOLTS
PLATE DISSIPATION	1.5	WATTS
DC CATHODE CURRENT	15	mA
GRID CIRCUIT RESISTANCE	1.0	MEGOHM
BULB TEMPERATURE	250	°C

**CHARACTERISTICS**

DC PLATE VOLTAGE	100	VOLTS
CATHODE RESISTOR	270	OHMS
DC PLATE CURRENT	9.0	mA
AMPLIFICATION FACTOR	16.5	
TRANSCONDUCTANCE	3,800	μMHOS
DC GRID VOLTAGE FOR $I_b = 150 \mu\text{ADC MAX.}$	-11.5	VOLTS
DC GRID VOLTAGE FOR $I_b = 5 \mu\text{ADC MIN.}$	-8.5	VOLTS

**SPECIAL TESTS AND RATINGS**

IMPACT ACCELERATION		
FATIGUE		
FAILURE RATE		
ALTITUDE-ABSOLUTE MAXIMUM	80,000	FT.
RADIATION-ABSOLUTE MAXIMUM		
TOTAL DOSAGE-NEUTRONS/SQ. CM	$10^{16}$	NVT
DOSE RATE- NEUTRONS/SQ. CM/SEC	$10^{12}$	NV



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