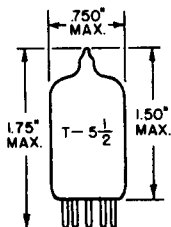


**TUNG-SOL**

## TRIODE

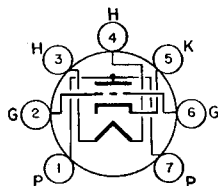
MINIATURE TYPE

MEDIUM MU TRIODE  
FOR  
UHF OSCILLATOR SERVICE



GLASS BULB  
MINIATURE BUTTON  
7 PIN BASE E7-1  
OUTLINE DRAWING  
JEDEC 5-1

COATED UNIPOTENTIAL CATHODE  
ANY MOUNTING POSITION



BOTTOM VIEW  
BASING DIAGRAM  
7 DK

THE 2DZ4 IS A MEDIUM MU TRIODE IN THE 7 PIN MINIATURE CONSTRUCTION, IT IS DESIGNED FOR UHF OSCILLATOR SERVICE. EXCEPT FOR HEATER CHARACTERISTICS AND RATINGS, THE 2DZ4 IS IDENTICAL TO THE 3DZ4 AND THE 6DZ4.

**DIRECT INTERELECTRODE CAPACITANCES  
WITH SHIELD**

GRID TO PLATE	1.8	pf
INPUT: G TO (H + K + E.S.)	2.2	pf
OUTPUT: P TO (H + K + E.S.)	1.3	pf

**HEATER CHARACTERISTICS AND RATINGS  
DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239**

AVERAGE CHARACTERISTICS	2.35 VOLTS	600	MA.
HEATER WARM-UP TIME		11	SECONDS
LIMITS OF SUPPLIED CURRENT		600 ± 40	MA.
HEATER - CATHODE VOLTAGE			
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK		180	VOLTS
HEATER POSITIVE WITH-RESPECT TO CATHODE			
DC		100	VOLTS
TOTAL DC AND PEAK		180	VOLTS

CONTINUED ON FOLLOWING PAGE

**TUNG-SOL**

CONTINUED FROM PRECEDING PAGE

**MAXIMUM RATINGS**

DESIGN MAXIMUM RATINGS - SEE EIA STANDARD RS-239

**UHF OSCILLATOR SERVICE**

PLATE VOLTAGE	135	VOLTS
NEGATIVE GRID VOLTAGE	50	VOLTS
PLATE DISSIPATION	2.3	WATTS
CATHODE CURRENT	20	MA.
GRID CURRENT	2	MA.

**CHARACTERISTICS AND TYPICAL OPERATION****CLASS A1 AMPLIFIER**

PLATE SUPPLY VOLTAGE	80	VOLTS
PLATE DROPPING RESISTOR	2,700	OHMS
PLATE CURRENT	15	MA.
TRANSCONDUCTANCE	6,700	$\mu$ MHOS
AMPLIFICATION FACTOR	14	
PLATE RESISTANCE	APPROX. 2,000	OHMS
GRID VOLTAGE FOR $I_b = 20 \mu A$	APPROX. -11	VOLTS

**OSCILLATOR AT 1000 Mc/s**

MEASURED IN JEDEC STANDARD OSCILLATOR NO. 400

PLATE SUPPLY VOLTAGE	80	VOLTS
PLATE DROPPING RESISTOR	2,700	OHMS
GRID RESISTOR	10,000	OHMS
PLATE CURRENT	15.5	MA.
GRID CURRENT	APPROX. 800	$\mu A$