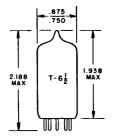
### TUNG-SOL -

#### TRIODE PENTODE

MINIATURE TYPE

# MEDIUM MU TRIODE AND SHARP CUT-OFF PENTODE



FOR

MOBILE COMMUNICATIONS EQUIPMENT

H 4 5 6 P 7 G2 P 8 IS, K,

COATED UNIPOTENTIAL CATHODES

ANY MOUNTING POSITION

BOTTOM VIEW BASING DIAGRAM JEDEC 9FA

GLASS BULB
MINIATURE BUTTON
9 PIN BASE E9-1
OUTLINE DRAWING
JEDEC 6-2

TRIODE SECTION:

THE 8446 CONTAINS A MEDIUM MU TRIODE AND A SHARP CUT-OFF HIGH-FREQUENCY PENTODE WITH SEPARATE CATHODES IN THE 9 PIN MINIATURE CONSTRUCTION. IT IS ADAPTED TO GIVE IMPROVED RELIABILITY IN MOBILE RADIO COMMUNICATION EQUIPMENT. ITS HEATER IS DESIGNED TO BE OPERATED FROM AN AUTOMOTIVE BATTERY.

ELECTRICALLY THE SAME TYPE, BUT WITH DIFFERENT BASING ARRANGEMENT, IS THE 8445.

#### **DIRECT INTERELECTRODE CAPACITANCES**

WITHOUT SHIELD

TRIODE SECTION:			
GRID TO PLATE: (TG TO TP)		1.5	pf
INPUT: TG TO (TK + H + PK + PG3 + I.S.)		2.5	pf
OUTPUT: TP TÓ (TK + H + PK + PG3 + I.S.)		2.2	pf
PENTODE SECTION:			
GRID 1 TO PLATE: (PG1 TO PP)	MAX.	0.046	pf
INPUT: PG1 TO (H + PK + PG2 + PG3 + 1.S.)		5.0	pf
OUTPUT: PP TO (H + PK + PG2 + PG3 + I.S.)		3.5	pf
COUPLING:			
TRIODE GRID TO PENTODE PLATE	MAX.	0.02	pf
PENTODE GRID 1 TO TRIODE PLATE	MAX.	0.16	pf
PENTODE PLATE TO TRIODE PLATE	MAX.	0.07	pf

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## ---- TUNG-SOL -----

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## HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.75	VOLTS	440	MA.
LIMITS OF APPLIED HEATER VOLTAGE			6.0 TO 7.5	VOLTS
HEATER CATHODE VOLTAGE: HEATER NEGATIVE WITH RESPECT TO	CATHODE			
TOTAL DC AND PEAK			200	VOLTS
HEATER POSITIVE WITH RESPECT TO C	CATHODE			
DC			100	VOLTS
TOTAL DC AND PEAK			200	VOLTS

#### **MAXIMUM RATINGS**

#### DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

	TRIODE	PENTODE	
PLATE VOLTAGE	330	330	VOLTS
GRID 2 VOLTAGE		200	VOLTS
POSITIVE GRID 1 VOLTAGE	0	0	VOLTS
PLATE DISSIPATION	2.0	1.7	WATTS
GRID 2 DISSIPATION		0.5	WATTS
GRID 1 CIRCUIT RESISTANCE			
FIXED BIAS	0.5	0.5	MEGOHM
CATHODE BIAS	1.0	1.0	MEGOHM

#### **AVERAGE CHARACTERISTICS**

PLATE VOLTAGE	100	170	<b>VOLTS</b>
GRID 2 VOLTAGE		170	VOLTS
GRID 1 VOLTAGE	-1.0	-2.0	VOLTS
PLATE CURRENT	12.5	10.0	MA.
GRID 2 CURRENT		2.5	MA.
TRANSCONDUCTANCE	7,000	6,200	<b>MHOS</b>
AMPLIFICATION FACTOR	43		
PLATE RESISTANCE (APPROX.)		0.4	MEGOHMS
GRID VOLTAGE (APPROX.) FOR 1b = 50 µA	-10		VOLTS
GRID 1 VOLTAGE (APPROX.) FOR 1b = 100 µA.		-7	VOLTS