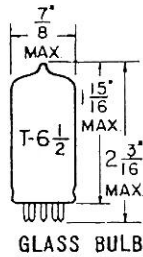
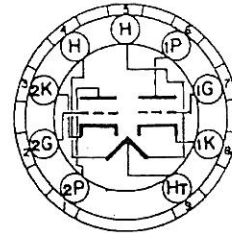


# ELECTRO-HARMONIX 12DW7EH



COATED UNIPOTENTIAL CATHODE

	HEATER	
SERIES	PARALLEL	
12.6 VOLTS	6.3 VOLTS	
0.15 AMP.	0.30 AMP.	
AC OR DC		
ANY MOUNTING POSITION		



**BOTTOM VIEW**  
SMALL BUTTON  
9 PIN BASE

9 A

THE 12DW7 IS A DISSIMILAR DOUBLE TRIODE IN THE 9 PIN MINIATURE CONSTRUCTION. IT IS ESPECIALLY SUITABLE FOR APPLICATIONS REQUIRING A HIGH GAIN VOLTAGE AMPLIFIER AND A CATHODYNE TYPE PHASE-INVERTER.

## RATINGS

	SECTION #1	SECTION #2	
HEATER VOLTAGE (SERIES)	12.6		VOLTS
HEATER VOLTAGE (PARALLEL)	6.3		VOLTS
MAXIMUM PLATE VOLTAGE	330	330	VOLTS
MAXIMUM PLATE DISSIPATION	1.2	3.3	WATT
MAXIMUM CATHODE CURRENT	---	22	MA.
MAXIMUM POSITIVE DC GRID VOLTAGE	0	---	VOLTS
MAXIMUM NEGATIVE DC GRID VOLTAGE	55	---	VOLTS
MAXIMUM GRID CIRCUIT RESISTANCE:			
FIXED BIAS		0.25	MEGOHM
SELF BIAS		1.0	MEGOHM
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

## DIRECT INTERELECTRODE CAPACITANCES

	SECTION #1		SECTION #2		
	WITH SHIELD	WITHOUT SHIELD	WITH SHIELD	WITHOUT SHIELD	
GRID TO PLATE	1.7	1.7	1.5	1.5	$\mu\mu\text{f}$
INPUT: G TO (H + K)	1.8	1.6	1.8	1.7	$\mu\mu\text{f}$
OUTPUT: P TO (H + K)	2.0	0.44	2.4	0.4	$\mu\mu\text{f}$

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

### CLASS A<sub>1</sub> AMPLIFIER

	SECTION #1		SECTION #2		
HEATER VOLTAGE (SERIES)			12.6		
HEATER VOLTAGE (PARALLEL)			6.3		
HEATER CURRENT (SERIES)			0.15		
HEATER CURRENT (PARALLEL)			0.30		
PLATE VOLTAGE	100	250	100	250	VOLTS
GRID VOLTAGE	-1	-2	0	-8.5	VOLTS
PLATE CURRENT	0.5	1.2	11.8	10.5	MA.
TRANSCONDUCTANCE	1250	1600	3100	2200	$\mu\text{MHOS}$
AMPLIFICATION FACTOR	100	100	20	17	
PLATE RESISTANCE	80000	62500	6500	7700	OHMS
E <sub>c1</sub> FOR I <sub>b</sub> = 10 $\mu\text{AMPS}$ .				-24	VOLTS