



TYPE 6854 (Tentative Data)
 Reliable Hard Glass Double Triode

MECHANICAL DATA

Coated unipotential cathode	
Outline drawing	6-2 Bulb T-6 1/2
Base	E9-1 miniature button, 9-Pin
Maximum bulb temperature	300°C
Maximum diameter	7/8
Maximum seated height	1-15/16
Maximum overall length	2-3/16
Pin connections	
Pin 1 Heater	Pin 6 #1 triode plate
Pin 2 #2 triode cathode	Pin 7 #1 triode grid
Pin 3 #2 triode grid	Pin 8 #1 triode cathode
Pin 4 #2 triode plate	Pin 9 Heater
Pin 5 Shield, internal	
Mounting position	any
Life expectancy	10,000 hrs

ELECTRICAL DATA

	Without	
	Shield	
<u>Direct interelectrode capacitances(each section)</u>		
Grid to plate: (g to p)	1.7	μf
Input: g to (h+k+i. s.)	2.4	μf
Output: p to (h+k+i. s.)	1.1	μf
Plate to plate.	0.10	μf
<u>Ratings (each section)</u>		
Heater voltage (ac or dc).	6.3	volts
Maximum plate voltage	300	volts
Maximum positive d-c grid voltage	0	volts
Maximum plate dissipation	1.5	watts
Maximum cathode current	20	mA
Maximum heater-cathode voltage	300	volts
Maximum grid circuit resistance	1.0	meg

Typical operating conditions and characteristics, class A1 amplifier
 (per section except where noted)

Heater voltage (ac or dc).	6.3	volts
Heater current (both sections)	500	mA
Plate voltage	150	volts
Cathode bias resistor.	240	ohms
Plate current	8.2	mA
Plate resistance (approximate)	6500	ohms
Transconductance	5225	μmhos
Amplification factor	35	
Grid #1 voltage for I _{b1} =10μA	-8	volts