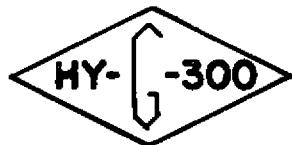


Bendix Aviation Corp.
Red Bank Division
Electron Tube Plant
Eatontown, New Jersey



Bendix TE-47
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February 18, 1957

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	9FV	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

<u>Direct interelectrode capacitances (each section)</u>	<u>Without</u>	<u>Shield</u>
Grid to plate: (g to p)	1.7	μuf
Input: g to (h+k+I.s.)	2.4	μuf
Output: p to (h+k+I.s.)	1.1	μuf
Plate to plate.	0.10	μuf

<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 $I_b = 10 \mu A$	-8	volts