

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



Bendix TE-42
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TYPE 6851 (Tentative Data)
 Miniature Hard Glass High Mu 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	#2 triode plate	9A	Pin 6	#1 triode plate
Pin 2	#2 triode grid		Pin 7	#1 triode grid
Pin 3	#2 triode cathode		Pin 8	#1 triode cathode
Pin 4	Heater		Pin 9	Heater center tap
Pin 5	Heater			

Mounting position any
 Life expectancy 10,000 hrs

ELECTRICAL DATA

<u>Direct interelectrode capacitances</u>	<u>#1 Triode</u>	<u>#2 Triode</u>	
Grid to plate	1.4	1.4	μμf
Input	1.4	1.6	μμf
Output	0.36	0.36	μμf

Ratings

Heater voltage (ac or dc)	6.3	volts
Maximum heater-cathode voltage	300	volts
Maximum plate voltage	330	volts
Maximum plate dissipation	1.0	watts
Maximum cathode current	8	mA
Maximum grid circuit resistance	1.0	meg

Typical operating conditions and characteristics, class A1 amplifier
 (each triode)

Heater voltage (ac or dc)	6.3	volts
Heater current	250	mA
Plate voltage	250	volts
Cathode resistor	3100	ohms
Plate resistance	60,000	ohms
Transconductance	1200	μmhos
Amplification factor	70	
Plate current	1.0	mA