



ELECTRONIC TUBE REFERENCE

ESA5000

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Industrial transmitting power triode intended for RF amplification, oscillation, or modulation. Manufacturer data emphasize substantial RF output, professional transmitter operation, and power-handling construction rather than receiving-tube service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	11 V / 125 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	2000 Ω
TRANSCONDUCTANCE	0.01 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	8500 V
MAXIMUM PLATE DISSIPATION	5000 W
MAXIMUM CATHODE CURRENT	9 A

Directly heated forced-air-cooled triode designed for radio-frequency amplifier or oscillator service and particularly suited to R.F. heating equipment; previously designated EHA.5000.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 AEI Industrial Valves

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1961 AEI INDUSTRIAL VALVES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumFilamentEmission	9 A	—
MaximumOperatingFrequencyFullRating	25 MHz	—
MainCoolingAirflow	500 ft3/min	ForcedAir
SealCoolingAirflow	15 ft3/min	ForcedAir

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Grid Capacitance	20.7 pF	—
AnodeFilamentCapacitance	2.5 pF	—
GridFilamentCapacitance	19.5 pF	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Associated Electrical Industries

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1961 ASSOCIATED ELECTRICAL INDUSTRIES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum operating frequency	25 MHz	—
Main air flow	500 ft3/min	—
Seal air flow	15 ft3/min	—