



ELECTRONIC TUBE REFERENCE

HFI490

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Industrial high-power triode for radio-frequency and industrial applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 120 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.14 S
AMPLIFICATION FACTOR	12.5
MAXIMUM PLATE VOLTAGE	10000 V
MAXIMUM PLATE DISSIPATION	6000 W
Published ratings and characteristics promoted from the supplied CSF source where explicitly available. CSF HFI490 directly heated thoriated-tungsten industrial RF power triode for dielectric heating and related oscillators, requiring forced-air cooling. Maximum continuous anode dissipation 6000 W (8000 W only intermittent). The 10000 V anode limit applies to lower frequencies and falls to 7000 V at higher frequency. Published test-point gm 140 mA/V and amplification factor 12.5 at Ia 1.2 A, Va 5000 V. Heater nominal 7.5 V, 120 A; establish cooling before energizing filament.	

Industrial high-power triode for radio-frequency and industrial applications.

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker