



ELECTRONIC TUBE REFERENCE

TYS4500

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Silica-envelope RF power triode for industrial RF-heating oscillators and transmitting or industrial amplifiers. Approximately 500 W plate dissipation and 4 kV capability support substantial industrial radio-frequency power.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	10 V / 10 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	4000 Ω
TRANSCONDUCTANCE	0.006 S
AMPLIFICATION FACTOR	24
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM PLATE DISSIPATION	500 W
MAXIMUM CATHODE CURRENT	750 mA
Promoted values are mapped from the supplied datasheet; additional published ratings, characteristics, capacitances and operating points are retained in TUBE_SECTION_PARAMETER.	

Silica-envelope RF power triode rated for 500 W plate dissipation, intended for RF heating oscillators and transmitting/industrial RF amplifiers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

1963 MULLARD

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	10 pF	—
Grid-to-filament capacitance	7.5 pF	—
Plate-to-filament capacitance	1.5 pF	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	6000 uS	—
Amplification factor	24 ratio	—
Plate resistance	4000 Ohm	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	30 MHz	FullRatings
Plate voltage	4000 V	ClassC;Amplifier;NaturalCooling;f=15MHz
Plate current	500 mA	ClassC;Amplifier;NaturalCooling;f=15MHz
Grid current	75 mA	ClassC;Amplifier;NaturalCooling;f=15MHz
Efficiency	75 %	ClassC;Amplifier;NaturalCooling;f=15MHz
RF output power	1.5 kW	ClassC;Amplifier;NaturalCooling;f=15MHz