



ELECTRONIC TUBE REFERENCE

TYS2250

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Silica-envelope RF power triode for self-excited oscillators and RF amplifiers in industrial heating and transmitting equipment. Moderate plate dissipation and multi-kilovolt operation support rugged industrial RF generation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.5 V / 12 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	3000 Ω
TRANSCONDUCTANCE	0.0035 S
AMPLIFICATION FACTOR	10.5
MAXIMUM PLATE VOLTAGE	2500 V
MAXIMUM PLATE DISSIPATION	250 W
MAXIMUM CATHODE CURRENT	500 mA
<i>Promoted values are mapped from the supplied datasheet; additional published ratings, characteristics, capacitances and operating points are retained in TUBE_SECTION_PARAMETER.</i>	

Silica-envelope RF power triode for self-excited oscillator and RF amplifier service in industrial heating and transmitting equipment.

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	1 pF	—
Grid-to-filament capacitance	5 pF	—
Plate-to-filament capacitance	1 pF	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	3500 μ S	Va=2kV;Ia=80mA
Amplification factor	10.5 ratio	Va=2kV;Ia=80mA
Plate resistance	3000 Ohm	Va=2kV;Ia=80mA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	75 MHz	ReducedRatingsAbove75MHz
Plate voltage	2000 V	ClassC;Amplifier;f=75MHz
Plate current	400 mA	ClassC;Amplifier;f=75MHz
Grid current	50 mA	ClassC;Amplifier;f=75MHz
RF output power	550 W	ClassC;Amplifier;f=75MHz
Efficiency	69 %	ClassC;Amplifier;f=75MHz

TUBE TINKER

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