

ELECTRONIC TUBE REFERENCE

TYS52000

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Silica-envelope RF power triode for self-excited Class-C oscillator and industrial RF-heating service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	14.5 V / 26 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	0.01 S
AMPLIFICATION FACTOR	23
MAXIMUM PLATE VOLTAGE	5000 V
MAXIMUM PLATE DISSIPATION	2000 W
MAXIMUM CATHODE CURRENT	2 A
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 for self-excited class-C oscillator and industrial RF-heating service.

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	35 pF	—
Grid-to-filament capacitance	20 pF	—

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	10000 uS	—
Amplification factor	23 ratio	—
Plate resistance	3000 Ohm	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	30 MHz	ReducedRatingsAbove20MHz
Plate voltage	5000 V	ClassC;SelfExcitedOscillator
Plate current	1.65 A	ClassC;SelfExcitedOscillator
Grid current	240 mA	ClassC;SelfExcitedOscillator
RF output power	6.2 kW	ClassC;SelfExcitedOscillator
Efficiency	75 %	ClassC;SelfExcitedOscillator