

ELECTRONIC TUBE REFERENCE

TYS51000

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	12.6 V / 18 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	5850 Ω
TRANSCONDUCTANCE	0.035 S
AMPLIFICATION FACTOR	7
MAXIMUM PLATE VOLTAGE	5000 V
MAXIMUM PLATE DISSIPATION	1500 W
MAXIMUM CATHODE CURRENT	1.4 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 RF-heating service, rated for about 1.5 kW plate dissipation.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	35000 μ S	Va=5kV
Amplification factor	7 ratio	Va=5kV
Plate resistance	5850 Ω	Va=5kV

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	30 MHz	FullRatings
Grid voltage maximum	-600 V	—
Grid current maximum	160 mA	—
RF output power	4 kW	ClassC;SelfExcitedOscillator;f=3MHz
Efficiency	73 %	ClassC;SelfExcitedOscillator;f=3MHz

TUBE TINKER

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and their source documents.

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