

ELECTRONIC TUBE REFERENCE

TY86000A

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Forced-air-cooled VHF RF power triode for industrial Class-C oscillator service, rated for 6-kW plate dissipation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 33 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.012 S
AMPLIFICATION FACTOR	24
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM PLATE DISSIPATION	6000 W
MAXIMUM CATHODE CURRENT	1.8 A
Promoted values are mapped from the supplied datasheet; additional published ratings, characteristics, capacitances and operating points are retained in TUBE_SECTION_PARAMETER.	

Forced-air cooled VHF RF power triode for industrial class-C oscillator service, rated for 6 kW plate dissipation and operation to 50 MHz.

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	50 MHz	—
Plate voltage	7200 V	ClassC;Oscillator;f=50MHz
Plate current loaded	1.5 A	ClassC;Oscillator;f=50MHz
Grid current loaded	360 mA	ClassC;Oscillator;f=50MHz
RF output power	7.5 kW	ClassC;Oscillator;f=50MHz
RF output less drive	7.2 kW	ClassC;Oscillator;f=50MHz
Efficiency	70 %	ClassC;Oscillator;f=50MHz

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	7.9 pF	—
Input capacitance	14.2 pF	—
Output capacitance	1 pF	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	12000 uS	Va=6kV;Ia=1A
Amplification factor	24 ratio	Va=6kV;Ia=1A