ELECTRONIC TUBE REFERENCE

TY86000W

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Water-jacket-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.

Water-jacket 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

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