ELECTRONIC TUBE REFERENCE

TY815W

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Water-jacket-cooled high-power RF triode for industrial Class-C oscillator service, producing roughly 14–18 kW at 30 MHz.

General characteristics

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 130 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

Section ratings

SECTION1 Triode	
TRANSCONDUCTANCE	0.023 S
AMPLIFICATION FACTOR	17.5
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM PLATE DISSIPATION	15000 W
MAXIMUM GRID DISSIPATION	800 W
MAXIMUM CATHODE CURRENT	4 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 high-power RF triode for industrial class-C oscillator service, rated around 14–18 kW output at 30 MHz.

SOURCE OPERATING CONDITIONS

1963 Mullard

SOURCE PDF

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	**30 MHz**	FullRatings
Plate voltage	**7000 V**	ClassC;Oscillator;f=30MHz
Plate current	**3.5 A**	ClassC;Oscillator;f=30MHz
Grid current	**950 mA**	ClassC;Oscillator;f=30MHz
Plate dissipation	**6.8 kW**	ClassC;Oscillator;f=30MHz
Efficiency	**72 %**	ClassC;Oscillator;f=30MHz
RF output power	**17.7 kW**	ClassC;Oscillator;f=30MHz

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	**33.5 pF**	—
Grid-to-filament capacitance	**44.5 pF**	—
Plate-to-filament capacitance	**1.2 pF**	—

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	**23000 uS**	Va=6kV;Ia=2.5A
Transconductance	**28000 uS**	Va=500V;Ia=14A
Amplification factor	**17.5 ratio**	Va=6kV;Ia=2.5A