

Forced-air-cooled high-power RF triode for industrial Class C oscillator service. Approximately 15 kW plate dissipation and 8 kV capability support tens of kilowatts of industrial RF output.

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.	

Forced-air cooled high-power RF triode for industrial class-C oscillator service, rated around 14-18 kW output at 30 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	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