



ELECTRONIC TUBE REFERENCE

YL1020

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Quick-heating directly heated double tetrode for mobile UHF transmitting equipment. Designed for rapid push-to-talk readiness, it serves RF output and frequency-multiplier stages and remains useful at frequencies approaching 500 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	16 V / 4.25 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.025 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	10 W
Representative of two identical RF tetrode sections.	

The Mullard YL1020 is a quick-heating directly heated double tetrode for UHF mobile-transmitter service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1959 Telefunken

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1959 TELEFUNKEN

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	16 V	—
Heater Current	4.25 A	—
Heater Warmup Time	0.5 s	Maximum
Maximum Intended Frequency	500 MHz	—
Transconductance	25000 μ S	Each section

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 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Operating Frequency	460 MHz	—
Maximum Plate Voltage	300 V	—
Maximum Plate Dissipation	10 W	EachSection
RF Output Power	9 W	RepresentativePublishedMaximum
Operating Frequency	200 MHz	ClassC
Plate Voltage	300 V	ClassC
Screen Voltage	250 V	ClassC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	45 mA	EachSection; ClassC
RF Output Power	9 W	ClassC; 200MHz
RF Output Power	7 W	ClassC; 460MHz

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	1.6 V	—
Filament Current	4.25 A	—

TUBE TINKER

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