

ELECTRONIC TUBE REFERENCE

QQV0310

Power - Tetrode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Miniature RF power double tetrode designed for amplifier and oscillator service to approximately 225 MHz. Its twin construction supports compact VHF power circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 830 mA	PARALLEL HEATER	6.3 V / 830 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM SCREEN DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	50 mA
Two electrically similar RF tetrode sections; represented once under identical-section compression.	

Miniature RF power double tetrode for amplifier/oscillator service to 225 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 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum operating frequency	225 MHz	—
RF operating frequency	100 MHz	ClassC
RF plate voltage	300 V	ClassC
RF screen voltage	175 V	ClassC
RF control-grid voltage	-40 V	ClassC
RF plate current per section	38 mA	ClassC
RF output power	16 W	ClassC
RF operating frequency	200 MHz	ClassC
RF plate voltage	300 V	ClassC
RF screen voltage	175 V	ClassC
RF control-grid voltage	-40 V	ClassC
RF plate current per section	38 mA	ClassC
RF output power	14 W	ClassC
RF operating frequency	175 MHz	ClassC,Modulated
RF plate voltage	200 V	ClassC,Modulated
RF screen voltage	175 V	ClassC,Modulated
RF control-grid voltage	-60 V	ClassC,Modulated
RF plate current per section	34 mA	ClassC,Modulated
RF output power	9 W	ClassC,Modulated
Heater-cathode voltage maximum	100 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-grid capacitance per section	0.1 pF	—
Push-pull input capacitance	5 pF	PushPull
Push-pull output capacitance	1.5 pF	PushPull
Grid-to-all capacitance per section	6.2 pF	—
Plate-to-all capacitance per section	2.6 pF	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1-to-grid2 amplification factor	7.5	—
Heater warm-up time	22 s	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	RF power amplifier / oscillator / frequency multiplier	—