



ELECTRONIC TUBE REFERENCE

EL153

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Radiation-cooled 70 W RF tetrode designed for short-wave and VHF transmitting service. Its power construction supports professional radio-frequency generation and amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.55 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.004 S
MAXIMUM PLATE VOLTAGE	650 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	40 W
MAXIMUM SCREEN DISSIPATION	5 W
MAXIMUM GRID DISSIPATION	1 W
MAXIMUM CATHODE CURRENT	230 mA
<i>Promoted values come from the supplied datasheet; additional ratings, characteristics, and operating points are retained in TUBE_SECTION_PARAMETER.</i>	

Radiation-cooled 70-watt RF tetrode for short-wave and VHF transmitting 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate peak voltage	1250 V	—
Plate voltage	650 V	ClassB;RFAmplifier;Wavelength=3m
Screen-grid voltage	210 V	ClassB;RFAmplifier;Wavelength=3m
Plate current	130 mA	ClassB;RFAmplifier;Wavelength=3m
Drive power	4 W	ClassB;RFAmplifier;Wavelength=3m
RF output power	50 W	ClassB;RFAmplifier;Wavelength=3m
RF output power	30 W	ClassB;RFAmplifier;Wavelength=1.7m

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	14.5 pF	—
Output capacitance	5.5 pF	—
Grid-to-plate capacitance maximum	0.35 pF	—

TUBE TINKER

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