



ELECTRONIC TUBE REFERENCE

T113

Voltage Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Directly heated electrometer tetrode using a space-charge grid for extremely low-current measurement, with very low grid current and explicit precautions concerning insulation, vibration, and ionization.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	3 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.00017 S
AMPLIFICATION FACTOR	2.5
MAXIMUM PLATE VOLTAGE	12 V
MAXIMUM SCREEN VOLTAGE	12 V
<i>Electrometer tetrode with control and space-charge grids.</i>	

The T113 is a directly heated electrometer tube using a space-charge grid. Its normal operating point is around 10 V plate and space-charge-grid voltage, with very small grid current and explicit precautions for insulation, vibration and ionization effects.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridCurrentMaximum	0.0000000005 mA	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Electrometer text	—



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 voltage	10 V	NormalOperatingPoint
Space-charge-grid voltage	10 V	NormalOperatingPoint
Control-grid bias	-3 V	NormalOperatingPoint
Plate current	0.24 mA	NormalOperatingPoint
Maximum space-charge-grid voltage	12 V	—

CHARACTERISTICS

PARAMETER

PUBLISHED VALUE

CONDITION / NOTE

Penetration factor

55 %

NormalOperatingPoint

Grid current

<6e-8 A

NormalOperatingPoint