



ELECTRONIC TUBE REFERENCE

A2521

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Low-noise UHF grounded-grid triode for amplification, small-power amplification, or frequency multiplication through approximately 1.25 GHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.015 S
AMPLIFICATION FACTOR	60
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	25 mA
<i>Grounded-grid UHF triode.</i>	

A UHF triode for grounded-grid circuits as a low-noise amplifier, small power amplifier or frequency multiplier at frequencies up to 1250 MHz. The A2521 is a commercial version of the CV2453 except for heater-current rating.

SOURCE OPERATING CONDITIONS

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PeakAnodeVoltage	1000 V	—
Peak Cathode Current	700 mA	Pulse<2us
DCGridCurrentMax	6 mA	—
small power ampl ifier or frequency multi pi ier at frequencies up to	1250 MHz	—
Heater voltage	6.3 V	—
Heater current (approx) - A2521	300 mA	—
Heater current (approx) - CV2453	370 mA	—
DC anode voltage	250 V	MAXIMUM RATINGS
Peak anode voltage	1000 V	MAXIMUM RATINGS
Anode dissipation	2.5 W	MAXIMUM RATINGS
DC grid current	6 mA	MAXIMUM RATINGS
DC cathode current	25 mA	MAXIMUM RATINGS
Peak cathode current (pulse duration 2/ls)	700 mA	MAXIMUM RATINGS
Negative dc grid voltage	20 V	MAXIMUM RATINGS
Peak heater-cathode voltage	100 V	MAXIMUM RATINGS
Frequency 1250 900 400	200 MHz	Typical Operation
Vb 180 180 180	180 V	Typical Operation
la 16 16 16	16 mA	Typical Operation
6f (to	3 dB	Typical Operation
6f (to 3 dB) 20 50 6	4 MHz	Typical Operation

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
tPower gain 9 10 17	14.5 dB	Typical Operation
t j Noise factor 11 1 9 5 6 7	4.6 dB	Typical Operation
DC anode voltage	250 V	Typical Operation
Anode dissipation	2.5 W	Typical Operation
Peak anode current	100 mA	Typical Operation
DC grid current	6 mA	Typical Operation
Positive dc cathode to grid voltage	20 V	Typical Operation
Frequency 400	900 MHz	Typical Operation as Amplifier
DC anode voltage 250	150 V	Typical Operation as Amplifier
Anode dissipation 2	2.4 W	Typical Operation as Amplifier
DC anode cu rrent 18	20 mA	Typical Operation as Amplifier
DC grid current 4 5	2.5 mA	Typical Operation as Amplifier
Positive dc cathode to grid voltage 10 5	5 V	Typical Operation as Amplifier
Driving power 0 3	0.45 W	Typical Operation as Amplifier
Load power (approx 2 6	0.9 W	Typical Operation as Amplifier
Frequency-in 200 133 3 450 300	416.6 MHz	Typical Operation as Frequency Multiplier
Frequency-out 400 400 900 900	1250 MHz	Typical Operation as Frequency Multiplier
Va 200 200 140 90	130 V	Typical Operation as Frequency Multiplier
r g 2 4 2 5 2 4 2 5	2.4 W	Typical Operation as Frequency Multiplier
la 20 15 20 20	18.5 mA	Typical Operation as Frequency Multiplier
Ig 3 5 1 5 3 5 3 0	1.5 mA	Typical Operation as Frequency Multiplier
+Vk1l 20 20 15 10	10.5 V	Typical Operation as Frequency Multiplier
Pdr 0 6 0 55 0 6 1 2	0.22 W	Typical Operation as Frequency Multiplier
PL (approx) 1 8 0 75 0 7 0 3	0.05 W	Typical Operation as Frequency Multiplier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode plus heater to grid	3.5 pF	CAPACITANCES (Measured on a cold unscreened valve)

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to grid	1.6 pF	CAPACITANCES (Measured on a cold unscreened valve)
Cathode plus heater to anode	0.06 pF	CAPACITANCES (Measured on a cold unscreened valve)
DC anode voltage	130 V	CAPACITANCES (Measured on a cold unscreened valve)
DC anode current	16 mA	CAPACITANCES (Measured on a cold unscreened valve)
Negative dc grid voltage (approx)	1 V	CAPACITANCES (Measured on a cold unscreened valve)

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