

ELECTRONIC TUBE REFERENCE

A2599GEC

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Low-noise VHF triode for grounded-cathode amplifier service, commercial equivalent of CV5242.

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

SECTION1 Triode	
TRANSCONDUCTANCE	0.015 S
AMPLIFICATION FACTOR	60
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	20 mA
Promoted fields mapped semantically from printed ratings/characteristics headings.	

Low-noise VHF triode for grounded-cathode use; commercial version of CV5242.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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
Base: B	9 A	Base: B9A
6·	3 V	6·3 V
Va	250 V	Va 250 V
pa 2·	5 W	pa 2·5 W
+Vs	20 V	+Vs 20 V
Vh-k(pk)	100 V	Vh-k(pk) 100 V
Tbulb	200 degC	Tbulb 200 °C
Va(b) 180	250 V	Va(b) 180 250 V
*Noise factor (average) 1·5 6·	8 dB	*Noise factor (average) 1·5 6·8 dB
tNoise factor (average) 1·3 4·	7 dB	tNoise factor (average) 1·3 4·7 dB
!:Power gain (approx) 30	20 dB	:!:Power gain (approx) 30 20 dB
Fig. 1. Circuit of	45 MHz	Fig. 1. Circuit of 45Mc/s cascode amplifier.
VI A2599 RI, R3 6811 0·	25 W	VI A2599 RI, R3 6811 0·25W
V3 Z77 R5 4'7k0 0'	25 W	V3 Z77 R5 4'7kO 0'25W
Capacitors R6 l'OM11 0·	25 W	Capacitors R6 l'OM11 0·25W
CI 2	-8 pF	CI 2-8pF R7 1500 0·25W
C2 to C14, C 16 l	0 pF	C2 to C14, C 16 l000pF R9 22k11 0·25W
CI5	470 pF	CI5 470pF RIO 10011 0'25W
*Core is of the type recommended for use up to	100 MHz	*Core is of the type recommended for use up to 100 Mc/s,
Fig. 2. Circuit of	200 MHz	Fig. 2. Circuit of 200Mc/s cascade amplifier.
RI 6811. Cl, C6 3	-30 pF	RI 6811. Cl, C6 3-30pF ceramic trimmer.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
R2-R3 rooi o, C2, C4, C9	4700 pF	R2-R3 rooi o, C2, C4, C9 4700pF feedthrough.
C5, C8	2000 pF	C5, C8 2000pF.
A	2599 A	A2599 A 2521
Fig. 3. Layout of	200 MHz	Fig. 3. Layout of 200Mc/s cascode amplifier.

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cg-all. less a: 3·	5 pF	Cg-all. less a: 3·5pF; Ca-all. less g: 0'7pF; Cg-a: 1·pF.

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Va	130 V	Va 130 V
gm	15 mA	gm 15 mA/V
* Measured hot at	45 MHz	* Measured hot at 45Mc/s with anode decoupled to cathode.

TUBE TINKER

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