

ELECTRONIC TUBE REFERENCE

8136

Voltage Pentode - Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Sharp-cutoff pentode designed for RF, IF, wide-band, or high-frequency voltage-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
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 Pentode	
MAXIMUM PLATE DISSIPATION	4 W
Promoted fields mapped by printed headings; additional data retained in parameters.	

Miniature sharp-cutoff pentode primarily for wide-band intermediate-frequency amplifier service in industrial applications, with controls intended to improve long-life performance.

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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage, AC or DC* . . . 6.3x	0.6 V	Published datasheet line; semantic text-layer recovery
Heater Current}	300 mA	Published datasheet line; semantic text-layer recovery
Heater Current}	1 in	Published datasheet line; semantic text-layer recovery
Grid-Number 1 to Plate: (gl to p)	0.02 pF	Published datasheet line; semantic text-layer recovery
Grid-Number 1 to Plate: (gl to p)	1 in	Published datasheet line; semantic text-layer recovery
i.s.)	7 pF	Published datasheet line; semantic text-layer recovery
i.s.)	2.2 pF	Published datasheet line; semantic text-layer recovery
Plate Voltage e e e e e e e e e e e e e e e e	330 V	Published datasheet line; semantic text-layer recovery
Screen Voltage. + + « « + 4 4 e 4 4 e 4 e 4 4 e 4 4 W+	15 V	Published datasheet line; semantic text-layer recovery
Plate Dissipation. + & ¢ ¢ v e e 4w e e e e e e e e e e	2.2 W	Published datasheet line; semantic text-layer recovery
Screen Dissipation ¢ o 0 v e e e e e e e e e e 0	65 W	Published datasheet line; semantic text-layer recovery
DC Component . T X [	0 V	Published datasheet line; semantic text-layer recovery
Total DC and Peak e e e e e e e e e e e e e e e e e e e . . o L	200 V	Published datasheet line; semantic text-layer recovery

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total DC and Peak. . . « « + + v & « « + 4 e « 4 e = e« « 4 .«	300 V	Published datasheet line; semantic text-layer recovery
Screen Voltage. . . « v ¢ + & « 4 4 e e e e e e 4 e e e e e oeo	125 V	Published datasheet line; semantic text-layer recovery
Cathode-Bias Resistor . . . « « + & « + o o o « o & & + &« 4+ « +	56 0hm	Published datasheet line; semantic text-layer recovery
Plate Current . . . « + + 4. 4 4 s e e e e e e e e e e e e	10.8 mA	Published datasheet line; semantic text-layer recovery
Screen CUITENT. . + « « o+ 4 4 s e e e e e e s e e e e e e e	29 mA	Published datasheet line; semantic text-layer recovery
Ib = 20 Microamperes. . . + + « « « 4 4+ 4 e e 4 e e e e 4« s+ & . =	6.5 V	Published datasheet line; semantic text-layer recovery
500 Hour Life-Test End Point, maximumff. +	5 0hm	Published datasheet line; semantic text-layer recovery
Heater current of a bogey tube at Ef =	6.3 V	Published datasheet line; semantic text-layer recovery
following conditions: Ef =	6.6 V	Published datasheet line; semantic text-layer recovery
following conditions: Ef =	150 V	Published datasheet line; semantic text-layer recovery
following conditions: Ef =	150 V	Published datasheet line; semantic text-layer recovery
following conditions: Ef =	0 V	Published datasheet line; semantic text-layer recovery
following conditions: Ef =	55 0hm	Published datasheet line; semantic text-layer recovery
Rgl =	250000 0hm	Published datasheet line; semantic text-layer recovery
Rgl =	-180 V	Published datasheet line; semantic text-layer recovery
=	5.7 V	Published datasheet line; semantic text-layer recovery
=	80 V	Published datasheet line; semantic text-layer recovery

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
=	2.5 mA	Published datasheet line; semantic text-layer recovery
24 Ec3 =	0 V	Published datasheet line; semantic text-layer recovery
Ec2 =	125 V	Published datasheet line; semantic text-layer recovery
20 Ib @ Ecy =	0 V	Published datasheet line; semantic text-layer recovery
A T = lg2 @ Eci =	0 V	Published datasheet line; semantic text-layer recovery
Ep =	125 V	Published datasheet line; semantic text-layer recovery
< =	0 V	Published datasheet line; semantic text-layer recovery
Ep =	125 V	Published datasheet line; semantic text-layer recovery
[~ Ec3 =	0 V	Published datasheet line; semantic text-layer recovery
Ep =	125 V	Published datasheet line; semantic text-layer recovery
Ec3 =	0 V	Published datasheet line; semantic text-layer recovery

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Direct Interelectrode Capacitances\$ Maximum Over-all Length . . 2.125	1 in	Published datasheet line; semantic text-layer recovery

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance . . <« + + + s+ o+ e e« 4 e e e e e e e	9800 uS	Published datasheet line; semantic text-layer recovery