



ELECTRONIC TUBE REFERENCE

6BE7

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
OTHER

Seven-grid tube for combined limiting and frequency-discriminator service in FM receiving circuits, integrating nonlinear limiting and FM detection in one specialized structure.

GENERAL CHARACTERISTICS

BASE DESIGNATION	NOVAL	BASE PINS	—
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 Other	
PLATE RESISTANCE	5000000 Ω
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	100 V
MAXIMUM PLATE DISSIPATION	0.1 W
MAXIMUM SCREEN DISSIPATION	0.1 W
MAXIMUM CATHODE CURRENT	5 mA
<i>Seven-grid tube designed for FM limiter-discriminator service.</i>	

Seven-grid tube designed for FM limiter-discriminator service. Published ratings, characteristics, capacitances, and representative operating conditions were extracted from the approved manual page where available.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Other

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	FMLimiterDiscriminator; OperatingPoint1
Screen voltage	205 V	FMLimiterDiscriminator; OperatingPoint1
Control-grid bias	4.45 V	FMLimiterDiscriminator; OperatingPoint1
Plate current	0.28 mA	FMLimiterDiscriminator; OperatingPoint1
Screen current	1.5 mA	FMLimiterDiscriminator; OperatingPoint1
Plate resistance	5000000 ohm	FMLimiterDiscriminator; OperatingPoint1
Load resistance	470000 ohm	FMLimiterDiscriminator; OperatingPoint1



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Other

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	200 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FM detector plate supply voltage	250 V	—
FM detector plate load resistance	0.47 Mohm	—
FM detector grid 3 input voltage	12 V RMS	—
FM detector grid 5 input voltage	12 V RMS	—
FM detector phase angle	90 deg	—
AF amplifier plate supply voltage	250 V	—
AF amplifier output voltage	15 V RMS	—
AF voltage gain	50	—

TUBE TINKER

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