



ELECTRONIC TUBE REFERENCE

7688

Voltage - Triple Triode electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

TRIODE-TRIODE-TRIODE

High-reliability medium-mu triple triode for instrumentation; each section is electrically equivalent to one section of a 12AU7.

GENERAL CHARACTERISTICS

BASE DESIGNATION	E12-66 / 12BA	BASE PINS	12
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	6500 Ω
TRANSCONDUCTANCE	0.0031 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	20 mA

Promoted from 250 V characteristic point; design-maximum values apply to each identical section.

SECTION2 Triode	
PLATE RESISTANCE	6500 Ω
TRANSCONDUCTANCE	0.0031 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	20 mA
<i>Physical triode section added to align rows with SectionCount.</i>	

SECTION3 Triode	
PLATE RESISTANCE	6500 Ω
TRANSCONDUCTANCE	0.0031 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	20 mA
<i>Physical triode section added to align rows with SectionCount.</i>	

Medium-mu triple triode; each section electrically equivalent to one section of 12AU7; high-reliability instrumentation service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 CBS Hytron

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

1960 CBS HYTRON

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	100 V	ClassA
Plate resistance	6500 Ohm	ClassA;Va=100V
Transconductance	3100 uS	ClassA;Va=100V
Amplification factor	20 ratio	ClassA;Va=100V
Plate current	11.8 mA	ClassA;Va=100V
Plate voltage	250 V	ClassA
Plate current	10.5 mA	ClassA;Va=250V