



ELECTRONIC TUBE REFERENCE

6T10

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

BEAMPOWER-PENTODE

Compactron combination tube containing an audio power pentode and sharp-cutoff dual-control pentode for television FM detector and audio-output service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	EIA 12EZ	BASE PINS	12
NOMINAL HEATER	6.3 V / 950 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	10000 Ω
TRANSCONDUCTANCE	0.0065 S
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM SCREEN VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	2 W
Audio power pentode section.	

SECTION2 Pentode	
PLATE RESISTANCE	150000 Ω
TRANSCONDUCTANCE	0.001 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.7 W
MAXIMUM SCREEN DISSIPATION	1.1 W
<i>Dual-control detector pentode; promoted transconductance is grid-number-1 transconductance. Screen maximum is chart-dependent.</i>	

6T10 is a Other vacuum tube documented in the RCA Receiving Tube Manual. The supplied excerpt was reviewed for heater data, section arrangement, maximum ratings, electrical characteristics, interelectrode capacitances, typical operating conditions, and stated applications.

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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	ClassA
Screen Voltage	250 V	ClassA
Grid-Number 1 Voltage	-8 V	ClassA
Load Resistance	5000 ohm	ClassA
Maximum-Signal Power Output	4.2 W	ClassA
Total Harmonic Distortion	10 %	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Zero-Signal Plate Current	35 mA	ClassA
Maximum-Signal Plate Current	39 mA	ClassA

1968 GENERAL ELECTRIC CO

Section 2 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	150 V	AverageCharacteristics
Suppressor Voltage	0 V	AverageCharacteristics
Screen Voltage	100 V	AverageCharacteristics
Cathode-Bias Resistor	560 ohm	AverageCharacteristics

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Number 3 Transconductance	400 uS	AverageCharacteristics

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	1.3 mA	AverageCharacteristics
Screen Current	2.1 mA	AverageCharacteristics



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Warm-up Time (Average)	11 s	MaximumRating;PublishedValue1
Heater Warm-up Time (Average)	11 s	MaximumRating;PublishedValue2
Peak value	200 V	MaximumRating;PublishedValue1
Peak value	200 V	MaximumRating;PublishedValue2
Peak value	200 V	MaximumRating;PublishedValue3
Average value	100 V	MaximumRating;PublishedValue1
Average value	100 V	MaximumRating;PublishedValue2
Average value	100 V	MaximumRating;PublishedValue3

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to Plate	0.22 pF	Capacitance
Shield •	11 pF	Capacitance
Shield	10 pF	Capacitance
Grid No.1 to Plate	0.032 pF	Capacitance
Grid No	3 pF	Capacitance;PublishedValue1
Grid No	3 pF	Capacitance;PublishedValue2
Internal Shield	7.6 pF	Capacitance
Grid No.1 to Grid No	3 pF	Capacitance;PublishedValue1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to Grid No	0.12 pF	Capacitance;PublishedValue2
Plate of Unit No.1 to Plate of Unit No	2 pF	Capacitance;PublishedValue1
Plate of Unit No.1 to Plate of Unit No	0.13 pF	Capacitance;PublishedValue2