

ELECTRONIC TUBE REFERENCE

10T10

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
BEAMPOWER-PENTODE

Compact beam-power output tube for receiver audio stages, providing useful Class-A output power from a heater arrangement intended for series-string equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12EZ	BASE PINS	12
NOMINAL HEATER	9.8 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

12EZ - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – Pin 1	–	H – Heater	CONNECTED • verified
PIN2 – Pin 2	B	K – Cathode	CONNECTED • verified
PIN2 – Pin 2	B	SH – Internal Shield	CONNECTED • verified
PIN2	–	IS – Internal Screen	CONNECTED
PIN3 – Pin 3	B	G1 – Control Grid	CONNECTED • verified
PIN4 – Pin 4	–	–	NC • verified
PIN5 – Pin 5	B	G3 – Suppressor Grid	CONNECTED • verified
PIN6 – Pin 6	B	G2 – Screen Grid	CONNECTED • verified

TERMINAL	SECTION	ELEMENT	STATUS
PIN7 – Pin 7	B	P – Plate (Anode)	CONNECTED · verified
PIN8 – Pin 8	A	G1 – Control Grid	CONNECTED · verified
PIN9 – Pin 9	A	BP – Beam-Forming Plate	CONNECTED · verified
PIN9	A	G3 – Suppressor Grid	CONNECTED
PIN9 – Pin 9	A	K – Cathode	CONNECTED · verified
PIN10 – Pin 10	A	G2 – Screen Grid	CONNECTED · verified
PIN11 – Pin 11	A	P – Plate (Anode)	CONNECTED · verified
PIN12 – Pin 12	–	H – Heater	CONNECTED · verified

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	100000 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
MAXIMUM CATHODE CURRENT	60 mA
Source is a product-information/reference sheet and does not print the referenced base tube's section ratings/characteristics; promoted fields intentionally not inferred from an external datasheet.	

SECTION2 Pentode	
PLATE RESISTANCE	150000 Ω
TRANSCONDUCTANCE	0.001 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.7 W
MAXIMUM SCREEN DISSIPATION	1.1 W
<i>Source is a product-information/reference sheet and does not print the referenced base tube's section ratings/characteristics; promoted fields intentionally not inferred from an external datasheet.</i>	

Combined beam-power and sharp-cutoff dual-control pentode for television FM detection and audio-frequency output amplification. Explicit heater variant/co-designation of 12T10 in the approved source.



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
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

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

TUBE TINKER

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