

ELECTRONIC TUBE REFERENCE

9GV8

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
BEAMPOWER-TRIODE

Combination high-mu triode and power pentode designed for television sync-amplifier and video-output applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9LY	BASE PINS	9
NOMINAL HEATER	9.5 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

9LY - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	B	P – Plate (Anode)	CONNECTED
PIN2	B	G1 – Control Grid	CONNECTED
PIN3	B	K – Cathode	CONNECTED
PIN4	–	H – Heater	CONNECTED
PIN5	–	H – Heater	CONNECTED
PIN6	A	P – Plate (Anode)	CONNECTED
PIN7	A	G2 – Screen Grid	CONNECTED
PIN8	A	G3 – Suppressor Grid	CONNECTED
PIN8	A	K – Cathode	CONNECTED
PIN8	–	IS – Internal Screen	CONNECTED
PIN9	A	G1 – Control Grid	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	7600 Ω
TRANSCONDUCTANCE	0.0065 S
AMPLIFICATION FACTOR	50
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	15 mA
<i>Published ratings and characteristics extracted from the approved RCA source. Pulse-only ratings remain parameter rows unless explicitly continuous.</i>	

SECTION2 Beam Power	
TRANSCONDUCTANCE	0.0075 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	7 W
MAXIMUM SCREEN DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	75 mA
<i>Published ratings and characteristics extracted from the approved RCA source. Pulse-only ratings remain parameter rows unless explicitly continuous.</i>	

High-mu triode plus power pentode used for sync-amplifier and video-output applications in television receivers.

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/de) 6.3 9.5 11.6	18 V	Published in approved ECL85 target datasheet entry; Section1
Heater Current 0.9 0.6 0.45	300 mA	Published in approved ECL85 target datasheet entry; Section1
IMate Supply Voltage 550	550 V	Published in approved ECL85 target datasheet entry; Section1
Peak Plate Voltage 0	2000 V	Published in approved ECL85 target datasheet entry; Section1
DC Plate Voltage 250	250 V	Published in approved ECL85 target datasheet entry; Section1
Grid-No.2 (Screen-Grid) Supply Voltage	550 V	Published in approved ECL85 target datasheet entry; Section1
Grid-No. 2 Voltage	250 V	Published in approved ECL85 target datasheet entry; Section1
Peak Cathode Current"	200 mA	Published in approved ECL85 target datasheet entry; Section1
Average Cathode Current 15	75 mA	Published in approved ECL85 target datasheet entry; Section1
Plate Dissipation 0.5	7 W	Published in approved ECL85 target datasheet entry; Section1
Crid-No.2 Input	2 W	Published in approved ECL85 target datasheet entry; Section1
Plate Voltage 100 50 65	170 V	Published in approved ECL85 target datasheet entry; Section1
Grid-No.2 Voltage 170 210	170 V	Published in approved ECL85 target datasheet entry; Section1
Grid-No. 1 Voltage -0.8 - -1	-15 V	Published in approved ECL85 target datasheet entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
For fixed-bias operation 1	1 MΩ	Published in approved ECL85 target datasheet entry; Section1
For cathode-bias operation 3.3	2.2 MΩ	Published in approved ECL85 target datasheet entry; Section1
Maximum pulse duration	5 %	Published in approved ECL85 target datasheet entry; Section1
Maximum pulse duration 5 per cent of a cycle with a maximum of	1 millisecond	Published in approved ECL85 target datasheet entry; Section1
Maximum pulse duration	200 microseconds	Published in approved ECL85 target datasheet entry; Section1
be reduced to 100 mA with a maximum pulse duration of	400 microseconds	Published in approved ECL85 target datasheet entry; Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance (Appro*.) 7600	-25000 Ω	Published in approved ECL85 target datasheet entry; Section1
Transccnductance 6500	7500 μS	Published in approved ECL85 target datasheet entry; Section1
Plate Current 5 200" 240	41 mA	Published in approved ECL85 target datasheet entry; Section1
Grid-No.2 Current 40« 50*	2.7 mA	Published in approved ECL85 target datasheet entry; Section1

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Section 2 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/de) 6.3 9.5 11.6	18 V	Published in approved ECL85 target datasheet entry; Section2
Heater Current 0.9 0.6 0.45	300 mA	Published in approved ECL85 target datasheet entry; Section2
IMate Supply Voltage 550	550 V	Published in approved ECL85 target datasheet entry; Section2
Peak Plate Voltage 0	2000 V	Published in approved ECL85 target datasheet entry; Section2
DC Plate Voltage 250	250 V	Published in approved ECL85 target datasheet entry; Section2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.2 (Screen-Grid) Supply Voltage	550 V	Published in approved ECL85 target datasheet entry; Section2
Grid-No. 2 Voltage	250 V	Published in approved ECL85 target datasheet entry; Section2
Peak Cathode Current"	200 mA	Published in approved ECL85 target datasheet entry; Section2
Average Cathode Current 15	75 mA	Published in approved ECL85 target datasheet entry; Section2
Plate Dissipation 0.5	7 W	Published in approved ECL85 target datasheet entry; Section2
Crid-No.2 Input	2 W	Published in approved ECL85 target datasheet entry; Section2
Plate Voltage 100 50 65	170 V	Published in approved ECL85 target datasheet entry; Section2
Grid-No.2 Voltage 170 210	170 V	Published in approved ECL85 target datasheet entry; Section2
Grid-No. 1 Voltage -0.8 – -1	-15 V	Published in approved ECL85 target datasheet entry; Section2
For fixed-bias operation 1	1 MΩ	Published in approved ECL85 target datasheet entry; Section2
For cathode-bias operation 3.3	2.2 MΩ	Published in approved ECL85 target datasheet entry; Section2
Maximum pulse duration	5 %	Published in approved ECL85 target datasheet entry; Section2
Maximum pulse duration 5 per cent of a cycle with a maximum of	1 millisecond	Published in approved ECL85 target datasheet entry; Section2
Maximum pulse duration	200 microseconds	Published in approved ECL85 target datasheet entry; Section2
be reduced to 100 mAwith a maximum pulse duration of	400 microseconds	Published in approved ECL85 target datasheet entry; Section2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance (Appro*.) 7600	-25000 Ω	Published in approved ECL85 target datasheet entry; Section2
Transccnductance 6500	7500 μS	Published in approved ECL85 target datasheet entry; Section2
Plate Current 5 200" 240	41 mA	Published in approved ECL85 target datasheet entry; Section2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-No.2 Current 40« 50*	2.7 mA	Published in approved ECL85 target datasheet entry; Section2

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