

Beam triode used for shunt regulation of high-voltage, low-current television power supplies, with explicit X-radiation safety limits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8MQ	BASE PINS	8
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	27000 V
MAXIMUM PLATE DISSIPATION	40 W
Beam triode for shunt voltage-regulator service; X-radiation characteristic is explicitly published.	

Beam triode used for shunt regulation of high-voltage, low-current television power supplies; datasheet includes X-radiation safety limits.

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	6.3 V	Nominal
Heater Current	200 mA	Nominal
Heater-Cathode Voltage	-450 V	Negative only; positive not recommended
Negative Grid Voltage	135 V	—
Peak Negative Grid Voltage	440 V	—
Average Plate Current	1.5 mA	—
Unregulated DC Supply Voltage	36000 V	ShuntVoltageRegulator
Equivalent Resistance of Unregulated Supply	11 megohm	ShuntVoltageRegulator
DC Reference Voltage	200 V	ShuntVoltageRegulator
Regulated DC Output Voltage	26000 V	LoadCurrent=0mA
Regulated DC Output Voltage	24500 V	LoadCurrent=1mA
X-Radiation Maximum Statistical Value	0.5 mR/hr	LotSampling

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-Plate Capacitance	1 pF	—
Grid-to-Cathode-and-Heater Capacitance	2.6 pF	—
Plate-to-Cathode-and-Heater Capacitance	1 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Effective Grid-Plate Transconductance	200 μ S	ShuntVoltageRegulator

TUBE TINKER

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