

ELECTRONIC TUBE REFERENCE

OC2

Voltage Regulator electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
VOLTAGEREGULATOR

Cold-cathode 75 V regulator for approximately 5-30 mA operation, with starting voltage notably affected by ambient illumination.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5B0	BASE PINS	7
NOMINAL HEATER	– / –	PARALLEL HEATER	– / –
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Voltage Regulator	
REGULATOR VOLTAGE	75 V
MINIMUM REGULATOR CURRENT	5 mA
MAXIMUM REGULATOR CURRENT	30 mA
STARTING VOLTAGE	145 V
MAINTAINING VOLTAGE	75 V
Published ratings and characteristics promoted from approved datasheet.	

RCA OC2 is a cold-cathode glow-discharge voltage-regulator tube for maintaining a relatively constant DC output voltage despite load and supply variations. Its nominal regulated region is centered near 75 V.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Voltage Regulator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average starting current	75 mA	—
DC cathode current	5 mA–30 mA	—
Ambient temperature range	-55 to +90 C	—
Maximum shunt capacitance	0.1 uF	—
Anode breakdown voltage in total darkness	145 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode breakdown / starting voltage	145 V	—
Anode voltage drop	68–83 V	—
Regulation over specified cathode-current range	—4.5 V	—
Anode breakdown voltage under normal ambient light	—115 V	—

TUBE TINKER

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