

Rugged medium-mu triode for detector, amplifier, and oscillator service in demanding equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	60	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	7700 Ω
TRANSCONDUCTANCE	0.0026 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	2.75 W
MAXIMUM CATHODE CURRENT	20 mA
Published maximum ratings, characteristics, operating conditions and capacitances reviewed.	

Rugged medium-mu triode for detector, amplifier, or oscillator service under severe shock and vibration.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
heater Current .3	5 A	heater Current .3 5 amps.
DC Component 100	100 V	DC Component 100 100 volts 0
Total DC and Peak 200	200 V	Total DC and Peak 200 200 volts
Total DC and Peak 200	200 V	Total DC and Peak 200 200 volts BOTTOM VIEW
Plate Voltage	330 V	Plate Voltage 330 volts
Plate Dissipation	2.75 W	Plate Dissipation 2.75 watts
Total Cathode Current	20 mA	Total Cathode Current 20 ma.
Plate Voltage 90	250 V	Plate Voltage 90 250 volts
Plate Resistance 6700	7700 Ω	Plate Resistance 6700 7700 ohms
Transconductance 3000	2600 μS	Transconductance 3000 2600 pmhos
Plate Current 10	9 mA	Plate Current 10 9 ma.
Under maximum rated conditions, the dc resistance of the grid circuits should not exceed	1 M Ω	Under maximum rated conditions, the dc resistance of the grid circuits should not exceed 1,0 megohm.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	Published handbook rating
Plate voltage	250 V	ClassA
Control-grid bias	8 V	ClassA
Plate current	9 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	7700 ohm	Published handbook characteristic
Transconductance	2600 μ S	Published handbook characteristic
Amplification factor	20	Published handbook characteristic
Heater voltage	6.3 V	Published heater rating
Heater current	300 mA	Published heater rating



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

195X Raytheon Special Purpose Tubes

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

195X RAYTHEON SPECIAL PURPOSE TUBES

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid voltage	-8 V	VoltageAmplifier
Plate voltage	250 V	VoltageAmplifier
Plate current	9 mA	VoltageAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	7700 Ω	Section1
Transconductance	2600 μ S	Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	20	Section1