



ELECTRONIC TUBE REFERENCE

6100

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Miniature triode for general electronic service. Available source material does not establish a narrower functional application confidently.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	7727.272727272727 Ω
TRANSCONDUCTANCE	0.0022 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	3.8 W
MAXIMUM CATHODE CURRENT	20 mA
<i>Raytheon CK6100/6C4WA medium-mu indirectly heated triode. Nominal gm 2200 μmhos (0.0022 S), mu 17; promoted rp 7727.27 ohms is derived as mu/gm, not independently published. Heater-cathode voltage limit ± 200 V (not a rectifier rating). Max grid circuit resistance 1.2 megohms, max grid current 5.5 mA, max bulb temperature 165°C. Nominal heater 6.3 V, 150 mA; permitted 5.7–6.9 V. Published characteristics and quality-control limits depend on test conditions.</i>	

Reliable medium-mu miniature triode for Class-C amplifier and oscillator service, characterized by long life and stable performance.

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	Published nominal value
Heater or filament current	150 mA	Published nominal or representative value
Amplification Factor	17	Nominal/bogie amplification factor; acceptance range 15.5–18.5
Transconductance	2200 μmho	Nominal/bogie transconductance at published Group D test conditions; acceptance range 1750–2650 μmhos
Heater or filament voltage	5.7–6.9 V	Nominal 6.3 V; MIL-E-1B minimum 5.7 V, absolute maximum 6.9 V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	3.8 W	Published maximum rating
Heater-Cathode Voltage	200 V	Maximum heater-to-cathode potential ± 200 V DC
Grid Circuit Resistance	1.2 M Ω	Maximum grid #1 circuit resistance
Bulb Temperature	165 $^{\circ}\text{C}$	Maximum bulb temperature
Grid Current	5.5 mA	Absolute maximum grid #1 current

TUBE TINKER

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and their source documents.

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