



ELECTRONIC TUBE REFERENCE

6118

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

6118 rugged double-diode high-mu triode for detection, AVC and audio amplification in aircraft and mobile receivers, with 6.3 V 300 mA heater.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION0 Triode	
PLATE RESISTANCE	58000 Ω
TRANSCONDUCTANCE	0.0012 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	300 V
<i>Radio Valve Co Canada 6118 high-mu triode section, common cathode with two diode plates. Design-center max plate 300 V. Class A typical V_a 100 V V_g -1 V I_a 0.8 mA or V_a 250 V V_g -3 V I_a 1 mA, μ 70, r_p 58000 Ω, g_m 0.0012 A/V. C_{gp} 1.4 pF, C_{gk} approx 5.6 pF, C_{pk} 3.8 pF with shell grounded to cathode. Max heater-cathode 50 V, vibration output ≤ 25 mV RMS. Triode grid top cap.</i>	

SECTION1 Diode

No fixed ratings recorded.

6118 diode physical section 1, plate pin5, shared cathode pin8 with triode and other diode. Manufacturer maximum operating current per diode plate 0.9 mA (not nominal rectifier output current). Heater 6.3 V 0.3 A, maximum heater-cathode 50 V.

SECTION2 Diode

No fixed ratings recorded.

6118 diode physical section 2, plate pin4, shared cathode pin8 with triode and other diode. Manufacturer maximum operating current per diode plate 0.9 mA (not nominal rectifier output current). Heater 6.3 V 0.3 A, maximum heater-cathode 50 V.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

9999 Mixed G 2000

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

9999 MIXED G 2000

Section 0 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	Class A plate voltage operating point

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	Heater voltage
Heater/filament current	300 mA	Heater current
Maximum plate voltage	300 V	Maximum triode plate voltage

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