

ELECTRONIC TUBE REFERENCE

6D10

Voltage - Triple Triode electronic tube

CONSOLIDATED TECHNICAL DATA
3 SECTIONS
CONSTRUCTION
TRIODE-TRIODE-TRIODE

Compactron triple triode combining oscillator-mixer, grounded-grid amplifier, and automatic-frequency-control functions in receiving equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12BQ	BASE PINS	12
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

12BQ - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	H – Heater	CONNECTED
PIN2	C	P – Plate (Anode)	CONNECTED
PIN3	C	K – Cathode	CONNECTED
PIN4	A	K – Cathode	CONNECTED
PIN5	B	P – Plate (Anode)	CONNECTED
PIN6	B	K – Cathode	CONNECTED
PIN7	B	G1 – Control Grid	CONNECTED
PIN8	–	–	IC
PIN9	A	G1 – Control Grid	CONNECTED
PIN10	A	P – Plate (Anode)	CONNECTED
PIN11	C	G1 – Control Grid	CONNECTED
PIN12	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	13600 Ω
TRANSCONDUCTANCE	0.0042 S
AMPLIFICATION FACTOR	7
MAXIMUM PLATE VOLTAGE	230 V
MAXIMUM PLATE DISSIPATION	2 W
Representative specification for repeated identical sections.	

SECTION2 Triode	
PLATE RESISTANCE	13600 Ω
TRANSCONDUCTANCE	0.0042 S
AMPLIFICATION FACTOR	7
MAXIMUM PLATE VOLTAGE	230 V
MAXIMUM PLATE DISSIPATION	2 W
Physical triode section; identical section represented explicitly under current section-row policy.	

SECTION3 Triode	
PLATE RESISTANCE	13600 Ω
TRANSCONDUCTANCE	0.0042 S
AMPLIFICATION FACTOR	7
MAXIMUM PLATE VOLTAGE	230 V
MAXIMUM PLATE DISSIPATION	2 W
Physical triode section; identical section represented explicitly under current section-row policy.	

The 6D10 is a Compactron containing three high-mu triodes with separate electrode connections. It is especially intended for oscillator-mixer, grounded-grid amplifier and automatic-frequency-control applications.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total Plate Dissipation	6 W	Plates 1, 2 and 3 combined
Plate Current	4.2 mA	Class A1; 125 V plate, -1 V grid

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-Plate Capacitance	1.5 pF	Each section
Input Capacitance	2.2 pF	Each section
Output Capacitance	0.5 pF	Each section



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	125 V	Published operating/characteristic table
Grid Voltage	-1 V	Published operating/characteristic table

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	4.2 mA	Published operating/characteristic table
Transconductance	4200 uS	Published operating/characteristic table
Amplification Factor	7	Published operating/characteristic table
Plate Resistance	13600 ohm	Published operating/characteristic table



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total plate dissipation, all plates	6 W	Section1,Section2
Plate voltage	125 V	Section1,Section2
Grid voltage	-1 V	Section1,Section2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	4.2 mA	Section1,Section2

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.5 pF	Section1,Section2
Input capacitance	2.2 pF	Section1,Section2
Output capacitance	0.5 pF	Section1,Section2

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

