



ELECTRONIC TUBE REFERENCE

DCC90

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Battery-operated miniature RF double triode designed primarily for portable transmitters, including push-pull RF power-amplifier and oscillator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B7G	BASE PINS	7
NOMINAL HEATER	1.4 V / 220 mA	PARALLEL HEATER	1.4 V / 220 mA
HEATING	Direct	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	8300 Ω
TRANSCONDUCTANCE	0.0018 S
AMPLIFICATION FACTOR	15
MAXIMUM PLATE VOLTAGE	135 V
MAXIMUM PLATE DISSIPATION	1 W
Battery-operated RF double triode for push-pull amplifier and oscillator service.	

SECTION2 Triode	
PLATE RESISTANCE	8300 Ω
TRANSCONDUCTANCE	0.0018 S
AMPLIFICATION FACTOR	15
MAXIMUM PLATE VOLTAGE	135 V
MAXIMUM PLATE DISSIPATION	1 W
<i>Second physical triode section; added to align rows with SectionCount.</i>	

Miniature RF double triode primarily for battery-operated portable transmitters, including push-pull RF amplifier and oscillator service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

1963 MULLARD

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage Series	2.8 V	—
Filament Current Series	110 mA	—
Filament Voltage Parallel	1.4 V	—
Filament Current Parallel	220 mA	—
Plate Voltage	90 V	EachSection
Grid Voltage	2.5 V	EachSection
Plate Current	3.7 mA	EachSection
Amplification Factor	15 ratio	EachSection
Plate Resistance	8300 ohm	EachSection
Transconductance	1800 uS	EachSection
Plate-to-Plate Capacitance	0.32 pF	BetweenSections
Grid-Filament Capacitance	0.9 pF	EachSection
Plate-Filament Capacitance	1 pF	EachSection
Plate-Grid Capacitance	3.2 pF	EachSection

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	135 V	PushPull; RFamplifier; 40MHz
Grid Voltage	-20 V	PushPull; RFamplifier; 40MHz
Plate Current	15 mA	EachSection; PushPull; 40MHz
RF Power Output	2 W	PushPull; 40MHz
Maximum Plate Voltage	135 V	Intermittent
Maximum Plate Current	15 mA	EachSection; Intermittent

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Dissipation	1 W	EachSection; Intermittent



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V1

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V1

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid capacitance	0.9 pF	—
Plate capacitance	1 pF	—
Grid-to-plate capacitance	3.2 pF	—
Inter-section plate capacitance	0.32 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	90 V	EachTriode
Grid voltage	-2.5 V	EachTriode
Plate current	3.7 mA	EachTriode
Plate voltage	135 V	PushPull RF 40MHz
Plate current	30 mA	TwoTubes PushPull RF 40MHz
Power output	2 W	PushPull RF 40MHz
Maximum plate current	30 mA	IntermittentOperation

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	1800 uS	EachTriode
Plate resistance	8.3 kohm	EachTriode

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1967 Mullard Receiving Tubes for Maintenance

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1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Interplate Capacitance	0.32 pF	EachSection
Grid-to-Filament Capacitance	0.9 pF	EachSection
Plate-to-Filament Capacitance	1 pF	EachSection
Plate-to-Grid Capacitance	3.2 pF	EachSection

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	90 V	EachSection
Grid Voltage	-2.5 V	EachSection
Plate Current	3.7 mA	EachSection
Amplification Factor	15	EachSection
Plate Resistance	8300 ohm	EachSection
Transconductance	1800 uS	EachSection

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	135 V	PushPull;RFAmplifierOrOscillator;40MHz;Intermittent
Grid Voltage	-20 V	PushPull;RFAmplifierOrOscillator;40MHz;Intermittent
Plate Current	15 mA	PushPull;RFAmplifierOrOscillator;40MHz;Intermittent
Grid Current	2.5 mA	PushPull;RFAmplifierOrOscillator;40MHz;Intermittent
Plate Dissipation	1 W	PushPull;RFAmplifierOrOscillator;40MHz;Intermittent
Power Output	2 W	PushPull;RFAmplifierOrOscillator;40MHz;Intermittent



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	1.35 V	—
Heater current	220 mA	—
Typical plate voltage	90 V	EachTriode
Typical grid voltage	-2.5 V	EachTriode
Typical plate current	3.7 mA	EachTriode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-grid capacitance	0.9 pF	EachTriode
Anode-grid capacitance	3.2 pF	EachTriode
Anode-anode capacitance	0.32 pF	EachTriode

TUBE TINKER

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

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