

ELECTRONIC TUBE REFERENCE

UCC84

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Series-heater double triode designed for cascode RF amplification in television receivers to approximately 220 MHz, providing paired high-frequency front-end sections.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B9A	BASE PINS	9
NOMINAL HEATER	21 V / 100 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.006 S
AMPLIFICATION FACTOR	24
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	18 mA
Ferranti/Mullard UCC84 high-frequency double triode for series-heater television cascode RF amplification to about 220 MHz. Each section is specified for max anode 180 V, plate dissipation 2 W, cathode current 18 mA; typical gain factor 24 and gm 6 mA/V at 90 V plate, -1.5 V grid and 12 mA anode. The separate triode on pins 6,7,8,9 is the intended grounded-cathode lower cascode stage; the other triode on pins 1,2,3 is the grounded-grid stage. Nominal heater 21 V, 100 mA in series operation. Quoted 2 kΩ is RF input impedance at 200 MHz rather than general DC plate resistance.	

SECTION2 Triode	
TRANSCONDUCTANCE	0.006 S
AMPLIFICATION FACTOR	24
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	18 mA
<i>Ferranti/Mullard UCC84 second physical triode for series-heater TV cascode RF amplifier through about 220 MHz. The section on pins 1,2,3 is intended for grounded-grid connection, while pins 6,7,8,9 form the grounded-cathode triode. Each has maximum anode 180 V, dissipation 2 W and cathode current 18 mA, and typical gm 6 mA/V and amplification factor 24 at Va 90 V, grid -1.5 V, Ia 12 mA. The documented 2 kΩ at 200 MHz is RF input impedance, not general DC plate resistance.</i>	

Series-heater double triode for cascode RF amplification in television equipment to about 220 MHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Ferranti Technical Handbook

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

1961 FERRANTI TECHNICAL HANDBOOK

Section 1 · Triode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Cascode RF amplifier	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum useful frequency	220 MHz	—

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
Maximum operating frequency	220 MHz	ApplicationLimit
Heater current	100 mA	SeriesOperation
Heater voltage	21 V	SeriesOperation