

ELECTRONIC TUBE REFERENCE

7FC7

Voltage - Dual Triode (dissimilar) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Frame-grid double triode designed for cascode RF amplification to approximately 220 MHz, combining two high-frequency sections for VHF receiver and television front-end service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	7.2 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.012 S
MAXIMUM PLATE VOLTAGE	130 V
MAXIMUM PLATE DISSIPATION	1.8 W
MAXIMUM CATHODE CURRENT	22 mA

Grounded-cathode cascode input section, pins 6, 7, 8 and 9, with pins 7 and 8 recommended strapped per Tung-Sol. Frame-grid dual triode for cascode amplifier operation up to 220 MHz; each section rated 130 V plate voltage, 1.8 W plate dissipation and 22 mA cathode current.

SECTION2 Triode	
TRANSCONDUCTANCE	0.012 S
MAXIMUM PLATE VOLTAGE	130 V
MAXIMUM PLATE DISSIPATION	1.8 W
MAXIMUM CATHODE CURRENT	22 mA
<i>Grounded-grid cascode output section, pins 1, 2 and 3, per Tung-Sol. Frame-grid dual triode for cascode amplifier operation up to 220 MHz; each section rated 130 V plate voltage, 1.8 W plate dissipation and 22 mA cathode current. Published transconductance 12,000 μmhos at specified test conditions.</i>	

The 7FC7 is a frame-grid double triode intended for cascode RF amplification at frequencies up to about 220 MHz and is electrically equivalent to the 6FC7 except for heater ratings.



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

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Frequency	220 MHz	—

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FrameGridConstruction	1	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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
Plate_voltage	40 V	Section1,Section2,Cascode
Grid_voltage	-1.2 V	Section1,Section2,Cascode
Noise_factor	4.5 dB	Section1,Section2,Cascode

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate_current	1.5 mA	Section1,Section2,Cascode
Transconductance	12000 uS	Section1,Section2,Cascode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.4 pF	Section1,Section2
Input capacitance	6.3 pF	Section1,Section2
Output capacitance	4.5 pF	Section1,Section2
Cathode-to-heater capacitance	2.9 pF	Section1,Section2