



ELECTRONIC TUBE REFERENCE

6FC7

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Tung-Sol 6FC7 frame-grid high-transconductance dual UHF cascode triode for RF amplification to 220 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9CC	BASE PINS	9
NOMINAL HEATER	6.3 V / 340 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.022 S
MAXIMUM PLATE VOLTAGE	130 V
MAXIMUM PLATE DISSIPATION	1.8 W
MAXIMUM CATHODE CURRENT	22 mA
<i>Tung-Sol 6FC7 frame-grid dual UHF cascode grounded-cathode section. Max plate 130 V, dissipation 1.8 W, cathode current 22 mA, negative grid 50 V, grid resistor 1 MΩ. Typical Va 90 V, Vg -1.2 V, Ia 15 mA, gm 0.022 A/V. Shielded Cgp 1.9 pF, input 3.8 pF, output 2.5 pF, grid-heater ≤0.3 pF. Cascode 220 MHz max, noise 5.5 dB.</i>	

SECTION2 Triode

TRANSCONDUCTANCE	0.022 S
MAXIMUM PLATE VOLTAGE	130 V
MAXIMUM PLATE DISSIPATION	1.8 W
MAXIMUM CATHODE CURRENT	22 mA

Tung-Sol 6FC7 frame-grid dual UHF cascode grounded-grid section. Max plate 130 V, dissipation 1.8 W, cathode current 22 mA, negative grid 50 V, grid resistor 500 k Ω . Typical V_a 90 V, V_g -1.2 V, I_a 15 mA, g_m 0.022 A/V. Shielded C_{gp} 4.1 pF, C_{pk} 0.2 pF, input 6.3 pF, output 4.5 pF, Chk 2.9 pF. Cascode 220 MHz max, noise 5.5 dB.

The 6FC7 is a frame-grid double triode intended for cascode amplifier service at frequencies up to about 220 MHz.



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
MaximumOperatingFrequency	220 MHz	—



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	90 V	Section1,Section2
Grid_voltage	-1.2 V	Section1,Section2
Noise_factor	5.5 dB	Section1,Section2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate_current	15 mA	Section1,Section2

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-heater capacitance maximum	0.3 pF	Section1,Section2
Input capacitance	6.3 pF	Section1,Section2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output capacitance	4.5 pF	Section1,Section2
Cathode-to-heater capacitance	2.9 pF	Section1,Section2

TUBE TINKER

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