

ELECTRONIC TUBE REFERENCE

40FR5

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Seven-pin miniature power pentode designed for audio-frequency power amplification with a controlled-warm-up 100 mA heater. Intended for series-string receiver output stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	40 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	20000 Ω
TRANSCONDUCTANCE	0.006 S
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM SCREEN VOLTAGE	130 V
MAXIMUM PLATE DISSIPATION	5.2 W
MAXIMUM SCREEN DISSIPATION	1.2 W
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
WARM-UP TIME	20 s
Published promoted fields populated by semantic headings; identical repeated sections compressed.	

The 40FR5 is a seven-pin miniature power pentode designed for audio-frequency power-amplifier service with a controlled-warm-up 100 mA heater.



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 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	20000 ohm	Typical
Transconductance	6000 uS	Typical

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Signal Power Output	1.5 W	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate voltage	130 V	ClassA
Typical screen voltage	110 V	ClassA
Typical plate current	32 mA	ClassA
Load resistance	2800 ohm	ClassA
Power output	1.5 W	ClassA
Maximum plate voltage	150 V	PromotedValue
Maximum screen voltage	130 V	PromotedValue

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	5.2 W	PromotedValue
Maximum screen dissipation	1.2 W	PromotedValue
Plate Voltage	150 V	PublishedTable
Grid #2 Voltage	130 V	PublishedTable
Plate Dissipation	5.2 W	PublishedTable
Grid #2 Dissipation	1.2 W	PublishedTable
Zero- Signal Plate Current 3L}	32 mA	PublishedTable
Max.- Signal Plate Current 3J	35 mA	PublishedTable
Zero-Signal Grid #2 Current 3.2	3 mA	PublishedTable
Plate Resistance, Approx.	20000 ohm	PublishedTable
Load Resistance 3200	2800 ohm	PublishedTable

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater warm-up time	20 s	ClassA
Plate resistance	20000 ohm	PromotedValue
Transconductance	0.006 A/V	PromotedValue

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.3 pF	—
Input capacitance	12 pF	—
Output capacitance	9 pF	—

TUBE TINKER

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