

ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA

1LC6

1 SECTION
CONSTRUCTION
HEPTODE

Voltage Pentode or Tetrode (under 100V) electronic tube

Battery pentagrid converter for oscillator and mixer service in portable superheterodyne receivers. Its economical filament and modest supply requirements provide useful frequency-changing performance with low battery consumption.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7AK	BASE PINS	8
NOMINAL HEATER	1.4 V / 50 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Heptode	
PLATE RESISTANCE	650000 Ω
TRANSCONDUCTANCE	0.00025 S
MAXIMUM PLATE VOLTAGE	90 V
MAXIMUM SCREEN VOLTAGE	35 V
MAXIMUM CATHODE CURRENT	3 mA
Pentagrid converter; conversion transconductance preserved in parameters because multiple condition-dependent values are published.	

1LC6 is listed as a pentagrid converter in the supplied receiving-tube handbook. It uses a 1.4 V, 0.05 A directly heated filament. The handbook publishes maximum ratings and representative operating characteristics for its intended service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Heptode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	110 V	Published handbook rating
Maximum screen voltage	65 V	Published handbook rating
Plate voltage	90 V	ClassA
Screen voltage	45 V	ClassA
Control-grid voltage	0 V	ClassA
Plate current	0.55 mA	ClassA
Screen current	0.6 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	750000 ohm	Published handbook characteristic
Transconductance	250 μ S	Published handbook characteristic
Filament voltage	1.4 V	DirectlyHeated DC filament
Filament current	50 mA	DirectlyHeated DC filament

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
SignalGridToMixerPlateCapacitance	0.28 pF	DirectInterelectrode
SignalGridToOscillatorPlateCapacitance	0.38 pF	DirectInterelectrode