



ELECTRONIC TUBE REFERENCE

6SA7WGT

Voltage Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
HEPTODE

Ruggedized special-purpose pentagrid converter for oscillator and mixer service. High output resistance and strengthened WGT construction suit more demanding equipment than ordinary consumer receiving converters.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9V	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9V - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – P	A	P – Plate (Anode)	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – G1	A	G1 – Control Grid	CONNECTED
PIN5 – G1	A	G1 – Control Grid	CONNECTED
PIN6 – K	A	K – Cathode	CONNECTED
PIN7 – G1	A	G1 – Control Grid	CONNECTED
PIN8 – G1	A	G1 – Control Grid	CONNECTED
PIN9 – H	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Heptode	
PLATE RESISTANCE	1000000 Ω
TRANSCONDUCTANCE	0.00045 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	100 V
<i>Promoted only from clearly identified printed ratings/characteristics; additional operating and limiting values retained in TUBE_SECTION_PARAMETER.</i>	

Rugged heptode converter for frequency-conversion service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Raytheon Special Purpose Tubes

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

195X RAYTHEON SPECIAL PURPOSE TUBES

Section 1 · Heptode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	Converter
Oscillator-grid resistor	20000 Ω	Converter
Screen voltage	100 V	Converter
Control-grid voltage	-2 V	Converter
Plate current	3.5 mA	Converter
Screen current	8.3 mA	Converter

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance minimum	1 M Ω	Converter
Conversion transconductance	450 μ S	Converter