

ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

6R4

Voltage - Triode (single high frequency) electronic tube

Radiation-cooled UHF power triode for high-frequency RF service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 240 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0055 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	16 W
Published ratings, characteristics, and operating conditions reviewed.	

6R4 is listed in the supplied Amperex material as a radiation-cooled UHF power triode. Published operating conditions and electrical characteristics were captured from the supplied tables.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	Published Amperex table
Plate dissipation	16 W	Published Amperex table
Plate current	27.7 mA	Published Amperex table
Power output at 750 MHz	1.1 W	Published Amperex table
Maximum frequency	1200 MHz	Published Amperex table

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5500 μ S	Published Amperex table
Heater/filament voltage	6.3 V	Published Amperex table
Heater/filament current	240 mA	Published Amperex table



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater rating
Heater current	240 mA	Published heater rating

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5500 μS	UHF

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	16 W	UHF
Maximum plate voltage	300 V	UHF
Maximum plate current	27.7 mA	UHF
Power output	1.1 W	At 750 MHz
Maximum frequency	1200 MHz	UHF