

ELECTRONIC TUBE REFERENCE

6Q4

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

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

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.012 S
MAXIMUM PLATE VOLTAGE	550 V
MAXIMUM PLATE DISSIPATION	30 W
Published ratings, characteristics, and operating conditions reviewed.	

6Q4 is listed in the supplied Amperex material as a radiation-cooled UHF 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	550 V	Published Amperex table
Plate dissipation	30 W	Published Amperex table
Plate current	15 mA	Published Amperex table
Maximum frequency	500 MHz	Published Amperex table

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	12000 μ S	Published Amperex table
Heater/filament voltage	6.3 V	Published Amperex table
Heater/filament current	450 mA	Published Amperex table
Gain at 300 MHz	15 dB	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	450 mA	Published heater rating

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	12000 μ S	UHF
Gain	15 dB	At 300 MHz
Bandwidth	4.5 MHz	At 300 MHz

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	30 W	UHF
Maximum plate voltage	550 V	UHF
Maximum plate current	15 mA	UHF
Maximum frequency	500 MHz	UHF

TUBE TINKER

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and their source documents.

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