



ELECTRONIC TUBE REFERENCE

6019

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Water-cooled grounded-grid UHF tetrode for kilowatt-class television power-amplifier and oscillator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 24 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
MAXIMUM SCREEN VOLTAGE	500 V
MAXIMUM PLATE DISSIPATION	2000 W
MAXIMUM CATHODE CURRENT	650 mA
<i>Published ratings and characteristics promoted semantically from source.</i>	

Water-cooled metal-ceramic grounded-grid UHF tetrode for television power-amplifier or oscillator service, capable of kilowatt-class continuous output.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Dissipation	2000 W	—
Maximum Cathode Current	650 mA	—
Power Output	1000 W	Narrowband ClassC

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Operating Frequency Maximum	900 MHz	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	6.3 V	—
HeaterOrFilamentCurrentNominal	24 A	—
HasAUsefulSynchronizingPeakPowerOutputOfOneKilowattAt900MegacyclesIn	900 W	Published datasheet table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
NarrowbandClassCServiceTheOutputIsOneKilowattOfContinuousPowerAsAnAm	1 W	Published datasheet table
HeaterStartingCurrent36Amperes	36 A	Published datasheet table
HeaterColdResistance00220hm	0.022 0hm	Published datasheet table
PeakCathodeCurrentT4Amperes	4 A	Published datasheet table
DCGridNo2Voltage600MaxVoltsValue1	2 V	Published datasheet table
DCGridNo2Voltage600MaxVoltsValue2	600 V	Published datasheet table
DPlateCurrent07MaxAmpere	700 mA	Published datasheet table
PlateDissipation20MaxKllowatts	2 W	Published datasheet table
GridNo1Dissipation16MaxWattsValue1	1 W	Published datasheet table
GridNo1Dissipation16MaxWattsValue2	16 W	Published datasheet table
DPlateVoltage3500Volts	3500 V	Published datasheet table
DGridNo2Voltage500VoltsValue1	2 V	Published datasheet table
DGridNo2Voltage500VoltsValue2	500 V	Published datasheet table
DCGridNo1Voltage40VoltsValue1	1 V	Published datasheet table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DCGridNo1Voltage40VoltsValue2	-4 V	Published datasheet table
DGridNo2CurrentPedestalLevel0035AmpereValue1	2 A	Published datasheet table
DGridNo2CurrentPedestalLevel0035AmpereValue2	35 mA	Published datasheet table
DCGridNo1Current	1	Published datasheet table
DPlateVoltage4000MaxVolts	4000 V	Published datasheet table
DGridNo2Voltage600MaxVoltsValue1	2 V	Published datasheet table
DGridNo2Voltage600MaxVoltsValue2	600 V	Published datasheet table
DGridNo1Voltage150MaxVoltsValue1	1 V	Published datasheet table
DGridNo1Voltage150MaxVoltsValue2	-150 V	Published datasheet table
DPlateCurrent07MaxAmpere	700 mA	Published datasheet table
DGridNo1Current010MaxAmpereValue1	1 A	Published datasheet table
DGridNo1Current010MaxAmpereValue2	100 mA	Published datasheet table
PlateDissipation2MaxKilewatts	2 W	Published datasheet table
GridNo1Dissipation16MaxWattsValue1	1 W	Published datasheet table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridNo1Dissipation16MaxWattsValue2	16 W	Published datasheet table
DCPlateVoltage4000Volts	4000 V	Published datasheet table
DCGridNo2Voltage600VoltsValue1	2 V	Published datasheet table
DCGridNo2Voltage600VoltsValue2	600 V	Published datasheet table
DCGridNo1Voltage120VoltsValue1	1 V	Published datasheet table
DCGridNo1Voltage120VoltsValue2	-120 V	Published datasheet table
PealktkRFPlateVoltageApproximate2750Volts	2750 V	Published datasheet table
DCPlateCurrent0550Ampere	550 mA	Published datasheet table
DCGridNo2Current0035AmpereValue1	2 A	Published datasheet table
DCGridNo2Current0035AmpereValue2	35 A	Published datasheet table
DCGridNo1CurrentApproximate0065AmpereValue1	1 A	Published datasheet table
DCGridNo1CurrentApproximate0065AmpereValue2	65 mA	Published datasheet table
DrivingPowerApproximate150Watts	150 W	Published datasheet table
TheCathodeOfTheGL6019InUltraHighFrequencyServiceIsSubjectedToConValue1	6019	Published datasheet table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TheCathodeOfTheGL6019InUltraHighFrequencyServiceIsSubjectedToConValue2	1	Published datasheet table
VoltageIsAdjJustedToAValueSlightlyAboveThatAtWhichCircuitPerformance	1	Published datasheet table
VoltageCanBeReduced0Approximately5VoltsAtLowerFrequenciesTheReduc	5 V	Published datasheet table
SCREENVOLTAGE500VOLTS	500 V	Published datasheet table
SCREENVOLTAGE500VOLTS	500 V	Published datasheet table
WCarrierConditionsWithAMeximumCdulationFactorOf10	1	Published datasheet table
DCPlateVoltage3200Volts	3200 V	Published datasheet table
DCGridNo2Voltage600VoltsValue1	2 V	Published datasheet table
DCGridNo2Voltage600VoltsValue2	600 V	Published datasheet table
DCC0ridNe1Voltage120VoltsValue1	1 V	Published datasheet table
DCC0ridNe1Voltage120VoltsValue2	120 V	Published datasheet table
DCPlateCurrent035Amperes	350 mA	Published datasheet table
DCGridNo1Current10AmperesValue1	1 A	Published datasheet table
DCGridNo1Current10AmperesValue2	10 A	Published datasheet table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PlateDissipation1200Watts	1200 W	Published datasheet table
DCGridNo2Voltage	2	Published datasheet table
DCCridNo1Voltage	1	Published datasheet table
PeakRFGridNo1Voltage137VoltsValue1	1 V	Published datasheet table
PeakRFGridNo1Voltage137VoltsValue2	137 V	Published datasheet table
DCPlateCurrent025Amperes	250 mA	Published datasheet table
DCGridNe2Current001AmperesValue1	2 A	Published datasheet table
DCGridNe2Current001AmperesValue2	10 mA	Published datasheet table
DGridNo1CurrentApprox0047AmperesValue1	1 A	Published datasheet table
DGridNo1CurrentApprox0047AmperesValue2	47 mA	Published datasheet table
PowerCutvut565	565	Published datasheet table

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