



ELECTRONIC TUBE REFERENCE

6039

Power - Triode Single (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled transmitting triode for grounded-grid Class B RF amplifier and Class C amplifier/oscillator service in television and FM transmitters.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 78 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
MAXIMUM PLATE DISSIPATION	7 W

Water-cooled transmitting triode for grounded-grid Class B RF amplifier and Class C amplifier/oscillator service in television and FM.



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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	5 V	—
HeaterOrFilamentCurrentNominal	78 A	—
ThoriatedTungstenFilamentWhichRequiresOnly258PercentOfTheAmountOfPower	25.8 %	Published datasheet table
RequiredHigherOutputCanBeObtainedAPairOf6039AAreCapableOf10Value1	6039	Published datasheet table
RequiredHigherOutputCanBeObtainedAPairOf6039AAreCapableOf10Value2	10	Published datasheet table
KilowattsOutputInTelevisionServiceAnd25KilowattsInFMOtherFeaturesOfThe	25 W	Published datasheet table
AmplificationFactorIp10AmpE50V172125Value1	1 V	Published datasheet table
AmplificationFactorIp10AmpE50V172125Value2	50 V	Published datasheet table
AmplificationFactorIp10AmpE50V172125Value3	17 V	Published datasheet table
DCPlateVoltage6000MaxVolts	6000 V	Published datasheet table
DCPlateCurrent225MaxAmperes	2.25 A	Published datasheet table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PlateDissipation7MaxKilowatts	7 W	Published datasheet table
DCPlateVoltage50005000VoltsValue1	5000 V	Published datasheet table
DCPlateVoltage50005000VoltsValue2	5000 V	Published datasheet table
DGridNo1Voltage270300VoltsValue1	1 V	Published datasheet table
DGridNo1Voltage270300VoltsValue2	270 V	Published datasheet table
DGridNo1Voltage270300VoltsValue3	300 V	Published datasheet table
PeakRFGridNo1Voltage700580VoltsValue1	1 V	Published datasheet table
PeakRFGridNo1Voltage700580VoltsValue2	700 V	Published datasheet table
PeakRFGridNo1Voltage700580VoltsValue3	580 V	Published datasheet table
DPlateCurrent2221AmperesValue1	2.2 A	Published datasheet table
DPlateCurrent2221AmperesValue2	2.1 A	Published datasheet table
DGridNo1CurrentApproximate021017AmpereValue1	1 A	Published datasheet table
DGridNo1CurrentApproximate021017AmpereValue2	210 mA	Published datasheet table
DGridNo1CurrentApproximate021017AmpereValue3	170 mA	Published datasheet table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DrivingPowerApproximatet13001060WattsValue1	1300 W	Published datasheet table
DrivingPowerApproximatet13001060WattsValue2	1060 W	Published datasheet table
PowerOutputApproximatet5649KilowattsValue1	5.6 W	Published datasheet table
PowerOutputApproximatet5649KilowattsValue2	4.9 W	Published datasheet table
DCPlateVoltage7500MaxVolts	7500 V	Published datasheet table
DGridNo1Voltage1000MaxVoltsValue1	1 V	Published datasheet table
DGridNo1Voltage1000MaxVoltsValue2	1000 V	Published datasheet table
DCPlateCurrent225MaxAmperes	2.25 A	Published datasheet table
DGridNo1Current0400MaxAmpereValue1	1 A	Published datasheet table
DGridNo1Current0400MaxAmpereValue2	400 mA	Published datasheet table
DCPlateVoltage7000Volts	7000 V	Published datasheet table
DGridNo1VoltageA00VoltsValue1	1 V	Published datasheet table
DGridNo1VoltageA00VoltsValue2	0 V	Published datasheet table
PeakRFGridNo1Voltage1540VoltsValue1	1 V	Published datasheet table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PeakRFGridNo1Voltage1540VoltsValue2	1540 V	Published datasheet table
DCPlateCurrent208Amperes	2.08 A	Published datasheet table
DGrtdNo1CurrentApproximate040AmpereValue1	1 A	Published datasheet table
DGrtdNo1CurrentApproximate040AmpereValue2	400 mA	Published datasheet table
DrivingPowerApproximate620Watts	620 W	Published datasheet table
PowerOutputApproximate10Kilowatts	10 W	Published datasheet table
DCPlateVoltageT000Volts	0 V	Published datasheet table
DCGridNo1Voltage900VoltsValue1	1 V	Published datasheet table
DCGridNo1Voltage900VoltsValue2	900 V	Published datasheet table
PeakRFGridNo1Voltage1540VoltsValue1	1 V	Published datasheet table
PeakRFGridNo1Voltage1540VoltsValue2	1540 V	Published datasheet table
DPlateCurrent208Amperes	2.08 A	Published datasheet table
DCGridNo1CurrentApproximate040AmpereValue1	1 A	Published datasheet table
DCGridNo1CurrentApproximate040AmpereValue2	400 mA	Published datasheet table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DrivingPowerApproximatet34Kilowatts	3.4 W	Published datasheet table
PowerOutputApproximatet128Kilowatts	12.8 W	Published datasheet table