



ELECTRONIC TUBE REFERENCE

Y1636

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Metal-ceramic planar power triode for plate- and grid-pulsed oscillator or amplifier service. Large cathode area increases current capability while compact planar construction supports demanding microwave pulse applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.045 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM PLATE DISSIPATION	50 W
MAXIMUM CATHODE CURRENT	4 A

The Y-1636 is a metal-ceramic planar triode intended for use as a plate-pulsed and grid pulsed oscillator or amplifier. This tube features a large cathode area to size ratio for added capabilities and/or lower current density resulting in longer life.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage AC or DC 6 0 6 3	6.6 V	AVERAGE CHARACTERISTICS Test Conditions
Cathode Warm-up Time	5 s	AVERAGE CHARACTERISTICS Test Conditions
ON t ittt ettt e et i ee e s e eee e eeeeennesanseenosneseaansnneensseneeonasenssnossnnenanss	1 us	AVERAGE CHARACTERISTICS Test Conditions
Plate SUPPLY V0 A i vt ittt ittt ittt it i iete ettt e e e te i e e e e e e e e	1600 V	AVERAGE CHARACTERISTICS Test Conditions
Plate Current Average DURING PULSE ot tt it iit it iiteetieoneasenonsnseorsostosecossosseannss	3 A	AVERAGE CHARACTERISTICS Test Conditions
Grid Current Average DURING PULSE ttt ittt ee e neene e eturnaeeonseonanansaanens	1.2 A	AVERAGE CHARACTERISTICS Test Conditions
Power Output Average DURING PULSE o ittt ittt i ettt ties s it e taina e etanereensaeses	1500 W	AVERAGE CHARACTERISTICS Test Conditions

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate SUPPLY V0IagE ot tt i i it i i i it i e it et	2000 V	ABSOLUTE-MAXIMUM RATINGS
PULSE DUAION 4t vttt t ittt e ttee e teeese s oneeaanesosoaesnasnenetosessnseasoasoanssoessssosssaassnsas	1 us	ABSOLUTE-MAXIMUM RATINGS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current Average During Pulse it eens	4 A	ABSOLUTE-MAXIMUM RATINGS
Negative DC Grid Voltage aaatetanaeeiaannnnnennenas	100 V	ABSOLUTE-MAXIMUM RATINGS
Grid Current Average During Pulse tssettneanaenannnns	1.5 A	ABSOLUTE-MAXIMUM RATINGS
F T G LT 1 o Y- 1 L1 PP	50 W	ABSOLUTE-MAXIMUM RATINGS
Heater Positive with Respect to Cathode iaicin e	50 V	ABSOLUTE-MAXIMUM RATINGS
Heater Negative with Respect to Cathode iieinneannanss	50 V	ABSOLUTE-MAXIMUM RATINGS
60 I T	1 A	Absolute-Maximum ratings are limiting values of operating of all other electron

TUBE TINKER

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