ELECTRONIC TUBE REFERENCE

6242

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
KLYSTRON

Three-resonator tunable UHF television klystron designed for broadband visual-amplifier service over approximately 806–890 MHz.

General characteristics

BASE DESIGNATION	_	**BASE PINS**	_
NOMINAL HEATER	6.3 V / 38 A	**PARALLEL HEATER**	_ / _
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Klystron

MAXIMUM PLATE DISSIPATION	51000 W

Special-purpose data not represented by fixed promoted fields are preserved in TUBE_SECTION_PARAMETER. Klystron maximum beam voltage/current, collector dissipation, RF drive/output, cooling, and frequency data are preserved as parameters; no semantically matching standard plate/screen promoted fields were forced.

Three-resonator tunable UHF television klystron from the GL-6237 through GL-6242 family for broadband visual-amplifier service.

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 · Klystron

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum Plate Dissipation	**51000 W**	—
Synchronizing Peak Power Output	**12 kW**	—

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Frequency Minimum	**470 MHz**	—
Frequency Maximum	**890 MHz**	—
Power Gain Minimum	**200**	—

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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 · Klystron

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
FrequencyRange	**806–890 MHz**	—
TelevisionChannelRange	**70–83**	—

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
MaximumBeamVoltage	**18 kV**	BroadbandTelevision
MaximumBeamCurrent	**3.25 A**	BroadbandTelevision
MaximumCollectorDissipation	**51 kW**	BroadbandTelevision
TypicalBeamVoltage	**17 kV**	BroadbandTelevision; Bandwidth=6MHz
SynchronizingPowerOutput	**12 kW**	BroadbandTelevision; Bandwidth=6MHz
will provide	**12 kW**	—
gain of approximately	**200 C**	—
Heater Voltage	**6.3 V**	—
Pressure Drop at Rated Flow approximate	**65 lb**	—
Drift Tubes	**2 gal/min**	—
Pressure Drop at Rated Flow approximate	**5 psi**	—
Water Pressure	**80 psi**	—
Outlet Water Temperature	**70 C**	—
Output Seals	**15 ft3/min**	—
Glass Temperature	**150 C**	—
D- Beam Voltage	**18 kV**	—
Driving Power	**15 C**	—
Pedestal Level	**33.7 W**	—
Pedestal level	**6.72 kW**	—
heater voltage should be started at approximetely	**8 V**	—
proximately	**2.5 A**	—
v Saturation power level	**18 C**	—

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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