



ELECTRONIC TUBE REFERENCE

6812

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

Long-life single-cavity reflex klystron designed for microwave local-oscillator service over approximately 2.5–5.0 GHz, with CW operation and pulse capability where specified.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Klystron

No fixed ratings recorded.

Published ratings and characteristics audited; additional numerical data retained in TUBE_SECTION_PARAMETER.

The 6812 is a single-cavity reflex klystron microwave oscillator for continuous-wave operation from approximately 2500 to 5000 MHz, intended primarily as a local oscillator and designed for long-life performance.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Ericsson

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

1960 ERICSSON

Section 1 · Klystron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published value [1]	2500 MHz	2500 - 5000 Mc/s. The output
Published value [2]	5000 MHz	2500 - 5000 Mc/s. The output
power is about	0.1 W	power is about 0.1 watt. The
Frequency range with suitable cavities [1]	2500 MHz	Frequency range with suitable cavities 2500-5000 Mc/s
Frequency range with suitable cavities [2]	-5000 MHz	Frequency range with suitable cavities 2500-5000 Mc/s
Frequency change with termnperature	0.6	Frequency change with termnperature 0.6 MC/OC
Frequency change with resonator voltage	0.1 V	Frequency change with resonator voltage 0.1 Mc /volt
Heater Voltage [1]	6.3 V	Heater Voltage 6.3 7 59 volts
Heater Voltage [2]	7 V	Heater Voltage 6.3 7 59 volts
Heater Voltage [3]	59 V	Heater Voltage 6.3 7 59 volts
Heater Current	600 mA	Heater Current 0.6 amps
Resonator Voltage	375 V	Resonator Voltage 375 volts
Resonator Current	30 mA	Resonator Current 30 milliamps
() Reflector Voltage Max	700 V	() Reflector Voltage Max. - 700 volts
Heater - Cathode Voltage	90 V	Heater - Cathode Voltage 90 \Orolts
Bulb Temperature	90	Bulb Temperature 90 C
TYPICAL OPERATION, FREQUENCY	4000 MHz	. TYPICAL OPERATION, FREQUENCY 4000 Mc/s.
Resonator Voltage	350 V	Resonator Voltage 350 volts
Resonator Current	22 mA	Resonator Current 22 milliamps
Reflector Transit Mode [1]	3	Reflector Transit Mode 3 3/4

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Reflector Transit Mode [2]	3	Reflector Transit Mode 3 3/4
Reflector Transit Mode [3]	4	Reflector Transit Mode 3 3/4
Reflector Voltage	100 V	Reflector Voltage - 100 volts
Power Output [1]	0 W	Power Output 0. 09 watt
Power Output [2]	9 W	Power Output 0. 09 watt
Electronic Tuning (to half power points)	20 MHz	Electronic Tuning (to half power points) 20 Mc/s
Modulation Sensitivity Min	0.5	Modulation Sensitivity Min. 0.5 Mec /volt
Published value [1]	1	1 Focus Cylinder 5 Heater
Published value [2]	5	1 Focus Cylinder 5 Heater
Published value [1]	2	2 Cathode 6 No Connection
Published value [2]	6	2 Cathode 6 No Connection
Published value [1]	3	3 Heater 7 Cathode
Published value [2]	7	3 Heater 7 Cathode
Published value	4	4 Cathode Reflector to be connected to pin on top of tube.
RESONATOR VOLTAGE o	480	RESONATOR VOLTAGE o 480 VOLTS
RESONATOR VOLTAGE =	150 V	RESONATOR VOLTAGE = 150 VOLTS
CONTROL GRID VOLTAGE = +	9 V	CONTROL GRID VOLTAGE = + 9 VOLTS
FREQUENCY	4700 MHz	FREQUENCY 4700 Mc/s
RESONATOR VOLTAGE =	350	RESONATOR VOLTAGE = 350 VOLTS / .
The resonator of the	6812 V	The resonator of the 6812 can be either operated at groundpotential with
brought out separately. The heatercathodevoltage maynot exceed	90 V	brought out separately. The heatercathodevoltage maynot exceed 90 volts.
must be made against the resonator voltage. The focus cylinder (pinNo	1 V	must be made against the resonator voltage. The focus cylinder (pinNo 1)
has to be connected outside the tube to the cathode (pin [1]	2	has to be connected outside the tube to the cathode (pin 2, 4 or 7).
has to be connected outside the tube to the cathode (pin [2]	4	has to be connected outside the tube to the cathode (pin 2, 4 or 7).

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
has to be connected outside the tube to the cathode (pin [3])	7	has to be connected outside the tube to the cathode (pin 2, 4 or 7).
The cavity of the	6812	The cavity of the 6812 is of the external type and the mechanical tuning
to as reflector modes, e.g [1]	1	to as reflector modes, e.g. 1 3/4, 2 3/4 and 3 3/4. The curves show
to as reflector modes, e.g [2]	3	to as reflector modes, e.g. 1 3/4, 2 3/4 and 3 3/4. The curves show
to as reflector modes, e.g [3]	4	to as reflector modes, e.g. 1 3/4, 2 3/4 and 3 3/4. The curves show
to as reflector modes, e.g [4]	2	to as reflector modes, e.g. 1 3/4, 2 3/4 and 3 3/4. The curves show
to as reflector modes, e.g [5]	3	to as reflector modes, e.g. 1 3/4, 2 3/4 and 3 3/4. The curves show
to as reflector modes, e.g [6]	4	to as reflector modes, e.g. 1 3/4, 2 3/4 and 3 3/4. The curves show
to as reflector modes, e.g [7]	3	to as reflector modes, e.g. 1 3/4, 2 3/4 and 3 3/4. The curves show
to as reflector modes, e.g [8]	3	to as reflector modes, e.g. 1 3/4, 2 3/4 and 3 3/4. The curves show
to as reflector modes, e.g [9]	4	to as reflector modes, e.g. 1 3/4, 2 3/4 and 3 3/4. The curves show

TUBE TINKER

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