

ELECTRONIC TUBE REFERENCE

7049

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

KLYSTRON

Ruggedized reflex klystron designed for CW, FM, or pulse microwave oscillator and local-oscillator service across its specified tuning range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	6.3 V / 680 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Klystron	
MAXIMUM PLATE VOLTAGE	350 V
MAXIMUM CATHODE CURRENT	35 mA
Reflex-klystron section; dedicated Klystron SectionType is not present in the canonical section vocabulary.	

Rugged ceramic reflex klystron for CW, FM, or pulse operation in an external cavity, covering approximately 1.5 to 6.0 GHz; intended for microwave signal generators, sources, spectrum analyzers, and receiver local oscillators.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 Polarad

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

1962 POLARAD

Section 1 · Klystron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	AC or DC
Heater current	680 mA	—
Maximum resonator voltage	350 V	—
Maximum resonator current	35 mA	—
Reflector voltage range	-700 to -35 V	—
Control electrode voltage range	+20 to -150 V	—
Maximum control electrode current	12 mA	—
Maximum heater-cathode voltage	45 V	—
Maximum power input	12 W	—
Maximum seal temperature	200 degC	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Klystron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	680 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Resonator voltage maximum	350 V	—
Resonator current maximum	35 mA	—
Reflector voltage minimum	-700 V	—
Reflector voltage maximum	-35 V	—
Control electrode current maximum	12 mA	—
Power input maximum	12 W	—
HEATER CHARACTERISTICS Reflector Voltage	35 volts	PublishedLine: HEATER CHARACTERISTICS: Reflector Voltage —700 volts dc max. to —35 volts dc m
Heater Voltage AC or DC	0.5 volts	PublishedLine: Heater Voltage, AC or DC.....6.3 0.5 volts, Control Electrode Voltage ... 420 to —150 volts dc
Heater Current	680 ma	PublishedLine: Heater Current ... 680 ma. Control Electrode Current 12 ma dc max.
RATINGS Absolute Values) Heater-Cathode Voltage	45 volts	PublishedLine: RATINGS {Absolute Values): Heater-Cathode Voltage ... =45 volts dc max.
Resonator Voltage .	12 watts	PublishedLine: Resonator Voltage _. —.....350 volts dc max. Power Input 12 watts max.
Resonator Voltage	325 volts	PublishedLine: Resonator Voltage 325 volts 325 volts 325 volts Control Electrode Voltage.— 10 volts
Cathode Current	28 ma	PublishedLine: Cathode Current ... 28 ma 28 ma 28 ma
Reflector Voltage (Approx.) -	110 volts	PublishedLine: Reflector Voltage (Approx.) ~—110 volts —200 volts —120 volts o - -
Control Electrode Voltage	410 volts	PublishedLine: Control Electrode Voltage _.... 410 volts 10 volts 10 volts
Power Output Cutoff Voltage.....-+	-3 volts	PublishedLine: Power Output Cutoff Voltage.....- +3 volts -3 volts -3 volts Minimum Pulse Duration 0.5 microse

TUBE TINKER

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