



ELECTRONIC TUBE REFERENCE

2K52

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

KLYSTRON

Secondary-emission mechanically tuned klystron in a high-power microwave amplifier/oscillator family, with a distinct tuning range for this designation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.4 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1	Klystron
MAXIMUM PLATE DISSIPATION	700 W
<i>Published ratings and characteristics promoted where clearly applicable; additional source values retained as section parameters.</i>	

Printed member of the 2K51/2K52/2K53 secondary-emission klystron family with a distinct mechanical tuning range.

SOURCE OPERATING CONDITIONS

1947 Westinghouse

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

1947 WESTINGHOUSE

Section 1 · Klystron

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	Published nominal/representative value
Heater or filament current	1.4 A	Published nominal/representative value
Mechanical tuning range	2900–3700 MHz	Published
Electronic tuning range	40 MHz	Published
Resonator voltage range	1500–3000 V	Published
Secondary cathode voltage range	0–500 V	Positive with respect to cathode
Grid voltage range	0–150 V	Published

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	700 W	Published
RF power output	5–30 W	Published range
Maximum power input	700 W	Forced-air cooling required above 50 W input

TUBE TINKER

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and their source documents.

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