



ELECTRONIC TUBE REFERENCE

3K23

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

Sperry 3K23 reflex klystron for microwave RF generation, with maximum accelerating voltage 1000 V and specified RF output 1-5 W.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Klystron

No fixed ratings recorded.

Sperry RMA #452 (1945) reflex klystron. Maximum accelerating voltage 1000 V DC, beam current 90 mA, beam power input 80 W; control electrode -20 to -200 V, max current 4 mA; reflector -1500 V cathode referenced; reflector current max 2 mA. Mechanical tuning 950-1150 MHz; electronic tuning 4 MHz high power / 10 MHz low power; maximum RF output 1-5 W. These are klystron accelerating-electrode/beam ratings, not conventional plate voltage/current/dissipation, so corresponding scalar fields remain null. Heater voltage/current not published in this source.

The 3K23 is a Sperry reflex klystron intended for microwave service at microwave frequencies.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1945 Sperry

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

1945 SPERRY

Section 1 · Klystron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Acceleration voltage	1000 V	Published datasheet value
Acceleration voltage	1000 V	Published datasheet value
Beam current	80 mA	Published datasheet value
Beam current	80 mA	Published datasheet value
Beam power input	80 W	Published datasheet value
Beam power input	80 W	Published datasheet value

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mechanical tuning range	950 to 1150 MHz	Published datasheet value
Mechanical tuning range	950 to 1150 MHz	Published datasheet value

TUBE TINKER

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