

ELECTRONIC TUBE REFERENCE

SAL39

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

KLYSTRON

Sperry klystron intended for microwave amplifier service, using velocity modulation to provide RF gain rather than reflex-oscillator operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 1.3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Klystron
No fixed ratings recorded.
Special microwave/gas-discharge section; published electrical data retained as section parameters.

The SAL39 is a Sperry klystron intended for amplifier 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
Beam voltage	20 kV	Pulse
Beam voltage	20 kV	Pulse
Beam current	8.5 A	Pulse
Beam current	8.5 A	Pulse
Average beam power	2100 W	Pulse
Average beam power	2100 W	Pulse
Average RF output power	300 W	Pulse
Average RF output power	300 W	Pulse
Pulse length	10 us	Pulse
Pulse length	10 us	Pulse
Duty cycle	12 %	Pulse
Duty cycle	12 %	Pulse