



ELECTRONIC TUBE REFERENCE

6116

Specialized - Klystron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
KLYSTRON

Ruggedized low-voltage thermally tuned X-band reflex klystron designed as a continuous-wave source over approximately 8.5–9.66 GHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B8-21	BASE PINS	8
NOMINAL HEATER	8 V / –	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 characteristics and ratings promoted where clearly recoverable from source.

The 6116 (Bendix® Type TK-62) tube is a ruggedized low voltage thermally tuned X-band reflex klystron, designed for use as a CW power source over the frequency range of 8500 to 9660 Mc./sec. Thermal tuning of the klystron is accomplished by means of a diode included within the vacuum envelope, the plate of which comprises one wall of the klystron cavity. As diode voltage, and hence current, is increased, expansion of the plate results in corresponding changes in the klystron cavity gap spacing causing the tube to tune. The tuning speed over the required frequency range is .7 to 3 seconds. With the exception of the diode tuner, the 6116 may be considered a ruggedized version of the 2K45 with equivalent outline dimensions and

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

196X Bendix

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

196X BENDIX

Section 1 · Klystron

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	8 V	Published datasheet value; see source context.
Cathode Current	300 mA	Published datasheet value; see source context.

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current	570 A	Published datasheet value; see source context.

TUBE TINKER

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