

ELECTRONIC TUBE REFERENCE

7116

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

MAGNETRON

Traveling-wave microwave amplifier providing broadband RF gain through interaction between an electron beam and a slow-wave structure.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / 860 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Magnetron
No fixed ratings recorded.
Published promoted values where applicable; special microwave values retained as parameters.

The 7116 is a Western Electric traveling-wave tube using a helix wave-propagating structure for microwave amplification.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Western Electric Random 2

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

1960 WESTERN ELECTRIC RANDOM 2

Section 1 · Magnetron

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range	8500-9600 MHz	Operating range

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum helix voltage	1500 V	—
Maximum collector voltage	1500 V	—
Maximum grid 2 voltage	1600 V	—

TUBE TINKER

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and their source documents.

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