



ELECTRONIC TUBE REFERENCE

2J51

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Western Electric pulsed magnetron oscillator with published microwave operating and pulse data.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 Magnetron

No fixed ratings recorded.

Published ratings and characteristics promoted where applicable; additional useful values retained as parameters.

2J51: Western Electric/RMA magnetron oscillator with published ratings and operating data. The complete approved datasheet was read semantically, including ratings, characteristics and operating information.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

194X Western Electric Random

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

194X WESTERN ELECTRIC RANDOM

Section 1 · Magnetron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range	8500–9600 Mc/s	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak power output	80 kW	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Magnetron

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
capable of delivering a peak output power Wop >	40 kW	capable of delivering a peak output power Wop > 40 kW at
powersof more than	150 W	powersof more than 150 W immediately after the application
input power greater than	150 W	input power greater than 150W immediately after applying
of the anode to keep its temperature below	150 °C	of the anode to keep its temperature below 150°C under agy
missible anode temperature of	150 °C	missible anode temperature of 150°C involves the risk of

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
of 'the anode to keep its temperature below	150 °C	of 'the anode to keep its temperature below 150 °C under any
la température de l'anode inférieure &	150 °C	la température de l'anode inférieure & 150 °C pour toute
geblasen werden, damit die Anodentemperatur unter	150 °C	geblasen werden, damit die Anodentemperatur unter 150 °C
Eine Anodentemperatur niedriger als 100	9 C	Eine Anodentemperatur niedriger als 100 9C wird empfohlen.
at voltages in the order of	100 V	at voltages in the order of 100 V. Consequently, the anode
Average performance charts of the 2J5	1 a	Average performance charts of the 2J51 at a frequency of
la température de l'anode inférieure a	150 °C	la température de l'anode inférieure a 150 °C pour toute
angeblasen werden, damit die Anodentemperatur unter	150 °C	angeblasen werden, damit die Anodentemperatur unter 150°C
Eine Anodentemperatur weniger als	100 °C	Eine Anodentemperatur weniger als 100°C wird empfohleR.

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacité Cax	6 pF	Capacité Cax=6pF Gamme 4'opération recommandée Iap=12-1554A
Capacité Cax	-1554 A	Capacité Cax=6pF Gamme 4'opération recommandée Iap=12-1554A