



ELECTRONIC TUBE REFERENCE

BA920

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Prefocused X-band backward-wave oscillator electronically tunable from 7-11.5 GHz, supporting multiple modulation modes and producing up to about 180 mW.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.7 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 TravelingWave	
WARM-UP TIME	60 s
Backward-wave oscillator electron-beam/delay-structure section; ordinary plate-grid metrics are not directly applicable.	

Demountable prefocused X-band backward-wave oscillator for electronically tuned microwave generation. The datasheet specifies amplitude, pulse or frequency modulation, forced-air cooling, delay-structure operating conditions and output power of at least 20 mW.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

1963 MULLARD

Section 1 · TravelingWave

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Delay-structure voltage maximum	1400 V	—
Delay-structure voltage minimum	250 V	—
Cathode current maximum	28 mA	—
Anode voltage maximum	500 V	—
Anode current maximum	10 mA	—
Frequency minimum	7 GHz	—
Frequency maximum	11.5 GHz	—
Frequency	8 GHz	—
Delay-structure voltage	390 V	f=8GHz
Output power	52 mW	f=8GHz
Frequency	9.4 GHz	—
Delay-structure voltage	630 V	f=9.4GHz
Output power	100 mW	f=9.4GHz
Frequency	11 GHz	—
Delay-structure voltage	1090 V	f=11GHz
Output power	120 mW	f=11GHz

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency sensitivity minimum	2 MHz/V	—
Frequency sensitivity maximum	10 MHz/V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output power minimum	20 mW	—
Output power maximum	180 mW	—

TUBE TINKER

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and their source documents.

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