



ELECTRONIC TUBE REFERENCE

BA1610

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Packaged backward-wave oscillator electronically tunable from 11-18 GHz, supporting amplitude, pulse, or frequency modulation with tens of milliwatts output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 TravelingWave	
WARM-UP TIME	60 s
<i>Promoted values are taken directly from the supplied datasheet; additional ratings, characteristics and operating points are preserved in TUBE_SECTION_PARAMETER.</i>	

Packaged backward-wave microwave oscillator for amplitude, pulse or frequency modulation from 11 to 18 GHz with 10 to 70 mW output.

SOURCE OPERATING CONDITIONS

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	2500 V	—
Delay-structure voltage minimum	500 V	—
Cathode current maximum	13 mA	—
Anode voltage maximum	500 V	—
Anode current maximum	2 mA	—
Frequency minimum	11 GHz	—
Frequency maximum	18 GHz	—
Frequency	12 GHz	—
Delay-structure voltage	700 V	f=12GHz
Output power	20 mW	f=12GHz
Frequency	15 GHz	—
Delay-structure voltage	1300 V	f=15GHz
Output power	45 mW	f=15GHz
Frequency	17.5 GHz	—
Delay-structure voltage	2100 V	f=17.5GHz
Output power	35 mW	f=17.5GHz

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency sensitivity minimum	2 MHz/V	—
Frequency sensitivity maximum	9 MHz/V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output power minimum	10 mW	—
Output power maximum	70 mW	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker