



ELECTRONIC TUBE REFERENCE

8198

Specialized - Traveling Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRAVELINGWAVE

Rugged ceramic-metal permanent-magnet-focused traveling-wave power amplifier covering 5-11 GHz, with about 60 dB gain and one-watt minimum CW output.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 TravelingWave	
MAXIMUM CATHODE CURRENT	23 mA
<i>Traveling-wave electron-beam device. Fixed section schema has no helix/collector/beam-voltage promoted fields; published values retained as parameters.</i>	

The EIMAC 8198 is a ruggedized ceramic/metal periodic-permanent-magnet-focused traveling-wave power-amplifier tube for 5-11 ghz service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 Eimac

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

1962 EIMAC

Section 1 · TravelingWave

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode current	23 mA	—
Minimum CW output power	1 W	—
Nominal small-signal gain	60 dB	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency range minimum	5 GHz	—
Frequency range maximum	11 GHz	—

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