



ELECTRONIC TUBE REFERENCE

X1153C

Specialized - Magnetron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
MAGNETRON

Eimac X-1153-C low-noise voltage-tunable continuous-wave magnetron operating from 600 to 1200 MHz, with 6.3 V 0.8 A AC heater.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 800 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Magnetron	
MAXIMUM PLATE VOLTAGE	2300 V
MAXIMUM CATHODE CURRENT	10 mA
<i>Eimac X-1153-C CW voltage-tunable magnetron: anode 1000–2000 V typical, maximum 2300 V; cathode current 2–4 mA typical, 10 mA max. Injection anode typical 100 V / 0.02 mA, maximum +300 V / 1 mA. RF frequency 600–1200 MHz; output typical 30–50 mW, minimum 20 mW, FM sensitivity 0.66 MHz/V, load 50 Ω, VSWR $\leq$ 2:1, noise -85 dB. Conduction cooled; magnet temperature < 70 °C.</i>	

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