



**EITEL-McCULLOUGH, INC.**  
SAN CARLOS, CALIFORNIA

**X-1153-C**  
LOW NOISE  
VOLTAGE TUNABLE  
MAGNETRON

Frequency  
0.6 - 1.2 Gc  
Minimum Output  
Power 20 mW

**TYPICAL PERFORMANCE**

**ELECTRICAL**

Frequency Range	- - -	0.6-1.2 Gc
Anode Voltage	- - -	1000-2000 V
Cathode Current	- - -	2-4 mA
Typical Output Power	- - -	30-50 mW
Anode FM Sensitivity	- - -	.66 Mc/V
Injection Anode Voltage	- - -	100 V
Injection Anode Current	- - -	0.02 mA
Heater Voltage (AC)	- - -	6.3 V
Heater Current (AC)	- - -	0.8 A
Load Impedance	- - -	50 ohms
Service	- - -	cw
Noise	- - -	-85 db
		(See Note 5)
VSWR (max)	- - -	2:1

**\*MAXIMUM RATINGS**

Anode Voltage	- - -	2300 V
Cathode	- - -	10 mA
Injection Anode Voltage	- - -	+300 V
Injection Anode Current	- - -	1 mA

\*Damage to the tube may occur if maximum ratings are exceeded.

**MECHANICAL**

Operating Position	- - -	Any
Cooling	- - -	Conduction
Electrical Connection	- - -	Flexible Leads
RF Output Coupling	- - -	Type TNC Jack
		(See Outline Drawing)
Weight	- - -	3.5 Pounds

**ENVIRONMENTAL**

Vibration	- - -	10G-(to 2 kc)
Shock	- - -	100G-(11 ms)
Altitude	- - -	70,000 ft.

**OUTLINE DIMENSIONS**

Height	- - -	3.1 inches
Width	- - -	2.5 inches
Length	- - -	4.6 inches



