



EITEL-McCULLOUGH, INC.
SAN CARLOS, CALIFORNIA

X-1099

**VOLTAGE TUNABLE
MAGNETRON**

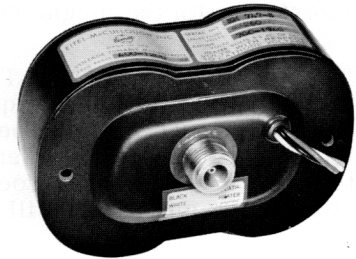
**FREQUENCY
530 - 655 Mc**

**MINIMUM OUTPUT
POWER 8 mW**

TYPICAL PERFORMANCE

ELECTRICAL

Frequency Range	- - - - -	530-655 Mc
Anode Voltage	- - - - -	925-1150 V
Cathode Current	- - - - -	0.5 mA
Typical Output Power	- - - - -	20-25 mW
Anode FM Sensitivity	- - - - -	.55 Mc/V
Injection Anode Voltage	- - - - -	100 V
Injection Anode Current	- - - - -	0.0 mA
Heater Voltage (AC)	- - - - -	6.3 V
Heater Current (AC)	- - - - -	0.8 A
Load Impedance	- - - - -	50 ohms
Service	- - - - -	cw
AM Noise	- - - - - (See Note #5)	-75 db



**P-BAND
OSCILLATOR**

***MAXIMUM RATINGS**

Anode Voltage	- - - - -	1500 V
Cathode Current	- - - - -	10 mA
Injection Anode Voltage	- - - - -	500 V
Injection Anode Current	- - - - -	1 mA

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

MECHANICAL

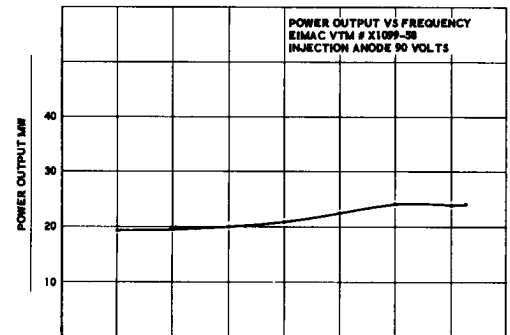
Operating Position	- - - - -	Any
Cooling	- - - - -	Conduction
Electrical Connection	- - - - -	Flexible Leads
RF Output Coupling	- - - - -	Type N Jack
Weight	- - - - -	3.5 Pounds

ENVIRONMENTAL

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

OUTLINE DIMENSIONS

Height	- - - - -	3 inches
Width	- - - - -	2.1 inches
Length	- - - - -	4.5 inches



FREQUENCY MC	530	550	570	590	610	630	650	655
ANODE VOLTAGE	925	945	1000	1040	1070	1105	1145	1150
ANODE CURRENT MA	.50	.30	.50	.35	.35	.35	.35	.35
NOISE LEVEL	-77	-75.9	-77	86.2	-81.7	-79	-78.8	-79.2

