



EITEL-McCULLOUGH, INC.
SAN CARLOS, CALIFORNIA

X-1111

**TWO-CAVITY
KLYSTRON**

TYPICAL PERFORMANCE

ELECTRICAL PERFORMANCE

Frequency Setting	- -	13.3±.005 Gc
Power Output	- - -	2.0 W min
Electronic Tuning Range		
(3 db bandwidth)	-	10 Mc
Resonator Voltage	-	2150±75 Vdc
Cathode Current	- -	15-25 mA
Modulation Sensitivity		100 kc/V
Heater Voltage	- -	6.3 V(ac or dc)±5%
Heater Current	- -	0-70 A
VSWR of Load	- -	1.2:1
Temperature Coefficient		±100 kc/°C
Warm-up Time	- -	35 seconds
██████	- - - -	██████████

MAXIMUM RATINGS

Resonator Voltage	- - - - -	2500 Vdc
Cathode Current	- - - - -	30 mA

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

MECHANICAL

Operating Position	-	Any
Electrical Connection		Flexible Leads
RF Output Coupling	-	RG-91/V waveguide flange
Cooling Required	- -	Conduction
Net Weight	- - - -	8 ounces
Shipping Weight (approximate)		4 Pounds

ENVIRONMENTAL PERFORMANCE

Temperature Range	- - -	-20 to +75° C
Altitude	- - - - -	100,000 feet max
Vibration	- - - - -	10 G, 20 to 2000 cps
Shock	- - - - -	60 G, 11 ms

OUTLINE DIMENSIONS

Height	- - - - -	.90 inches
Width	- - - - -	1.35 inches
Length	- - - - -	2.80 inches

