

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

TENTATIVE DATA

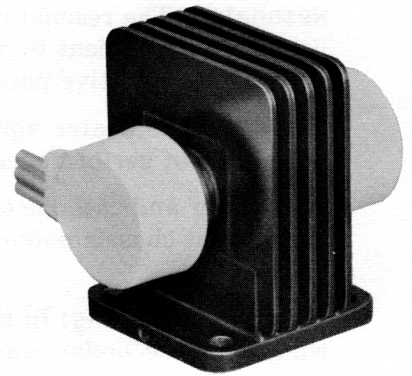
**X1118A**

X BAND  
REFLEX KLYSTRON

**TYPICAL PERFORMANCE**

**ELECTRICAL PERFORMANCE**

Frequency range . . . . .	10.7 to 11.2 Gc
Mechanically tunable . . . . .	500 Mc
Power output . . . . .	100 mW
Electronic tuning range (3 db bandwidth) . . . . .	40 Mc
Resonator voltage . . . . .	400 Vdc
Cathode current . . . . .	40 mA <sub>dc</sub>
Repeller voltage . . . . .	-150 Vdc
Modulation sensitivity . . . . .	2.0 Mc/V
Heater voltage . . . . .	6.3 V (ac or dc) ±5%
Heater current . . . . .	1.0 A max.
Mode . . . . .	4 <sup>3</sup> / <sub>4</sub>
VSWR of load . . . . .	1.2:1 max.
Temperature coefficient . . . . .	±150 Kc/°C
Warm-up time . . . . .	30 sec.



**MAXIMUM RATINGS**

Resonator voltage . . . . .	500 Vdc
Cathode current . . . . .	60 mA
Repeller voltage:	
Negative with respect to cathode . . . . .	-25 to -500 Vdc

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

**MECHANICAL**

Operating position . . . . .	any
Electrical connections . . . . .	flexible leads
RF output coupling . . . . .	WR-75 wave-guide flange
Cooling required . . . . .	conduction or convection
Net weight . . . . .	6 oz.
Shipping weight (approximate) . . . . .	4 lbs.

**ENVIRONMENTAL PERFORMANCE**

Temperature range . . . . .	-50 to +100 °C
Altitude . . . . .	100,000 ft. max.
Vibration . . . . .	10G, 20 to 2000 cps.
Shock . . . . .	40G, 11 ms

**OUTLINE DIMENSIONS**

Height . . . . .	1.8 in.
Width . . . . .	1.5 in.
Length . . . . .	2.5 in.

