

EITEL-McCULLOUGH, INC.
SAN CARLOS, CALIFORNIA

TENTATIVE DATA

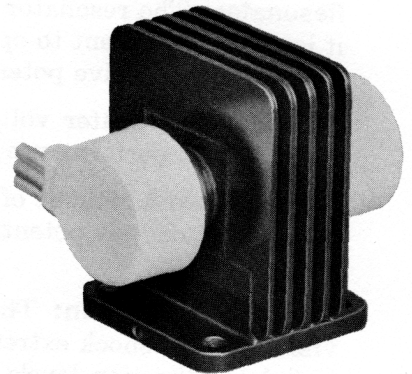
X1116

X BAND
REFLEX KLYSTRON

TYPICAL PERFORMANCE

ELECTRICAL PERFORMANCE

Frequency range	11.7 to 12.2 Gc
Mechanically tunable	500 Mc
Power output	1 W min.
Electronic tuning range (3 db bandwidth)	40 Mc min.
Resonator voltage	750 Vdc
Cathode current	90 mA max.
Repeller voltage	-300 Vdc
Modulation sensitivity	1.5 Mc/V max.
Heater voltage	6.3 V (ac or dc) $\pm 5\%$
Heater current	1.3 A max.
Mode	$3\frac{3}{4}$
VSWR of load	1.2:1 max.
Temperature coefficient	± 100 Kc/ $^{\circ}$ C
Warm-up time	30 sec.



MAXIMUM RATINGS

Resonator voltage	900 Vdc
Cathode current	110 mA
Repeller voltage:	
Negative with respect to cathode	-50 to -1000 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 & convection
Net weight	6 oz.
Shipping weight (approximate)	4 lbs.

ENVIRONMENTAL PERFORMANCE

Temperature range	-50 to +100 $^{\circ}$ C
Altitude	100,000 ft. max.
Vibration	10G, 20 to 2000 cps.
Shock	40G, 11 ms

OUTLINE DIMENSIONS

Height	1.6 in.
Width	1.6 in.
Length	2.1 in.

(EFFECTIVE 4-1-64)

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