

Traveling-Wave Tubes

Technical Information

RF PERFORMANCE

Tube Type	Frequency Range (Gc)	Min. Peak Saturated Power Output, (kw)	Maximum Duty	Maximum Pulse Width (μ sec)	Minumum Saturated Gain (db)
ZM-3092	5.4 - 5.9	12	0.028	6	40

- HIGH POWER
- C-BAND
- PPM FOCUSING

FEATURES

high gain
 broad bandwidth
 periodic permanent magnet focusing
 metal-ceramic construction
 ring-bar circuit
 military environments
 light weight
 grid control

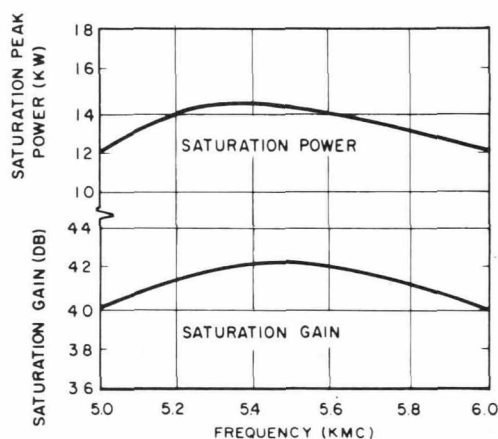
APPLICATIONS

radar
 ecm

MECHANICAL & MISCELLANEOUS

VSWR, max	
Input.....	2.5
Output.....	2.5
Grid-to-other elements μ f (max.)	30
Phase Shift, deg/1% change in cathode voltage (max) .	35
Weight, lb.....	13
Over-all length, in.....	24.0
Mounting position	Any
Cooling.....	Liquid
Min. flow (water)gpm ...	0.3
Pressure drop, psi.....	10
Connectors	
RF input.....	N, female
RF output	N, female

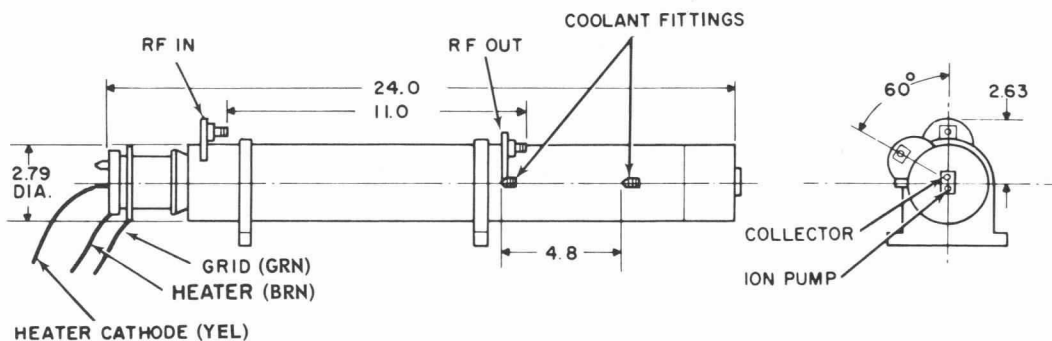
TYPICAL CHARACTERISTICS



OPERATING CONDITIONS*†

Htr. vac or vdc.....	10 to 12
Htr. amp (max)	2.5
Cath. kvdc, with	
resp. to anode	-20 to -25
Peak cath. amp (max)	5
Grid-bias vdc, with	
resp. to cath	-250 to -350
Grid swing vdc, with resp.	
to grid-bias voltage	500 to 600
Peak grid amp (max)	0.75
Coll. kv dc [#] , with resp.	
to anode	0 to -12
Ion pump vdc, with resp. to anode	2800

OUTLINE



DIMENSIONS ARE IN INCHES AND ARE APPROXIMATE

NOTES

- * For the performance ratings specified, voltages should be adjusted to values specified by instructions accompanying each tube. These values will be within the ranges given above.
 - † The cathode voltage may be set at various values between -20 and -25 kv to obtain different power and gain characteristics.
 - # The collector may be operated at the anode voltage (0 kv) or it may be depressed to -12 kv.
- These data are subject to change without notice.