

Traveling-Wave Tubes

Technical Information

- HIGH POWER
- C-BAND
- PPM FOCUSING

RF PERFORMANCE

Tube Type	Frequency Range (Gc)	Min. Peak Saturated Power Output, (kw)	Maximum Duty	Maximum Pulse Width (μ sec)	Minimum Saturated Gain (db)
ZM-3167	5.4 - 5.9	5	0.002	10	51

FEATURES

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

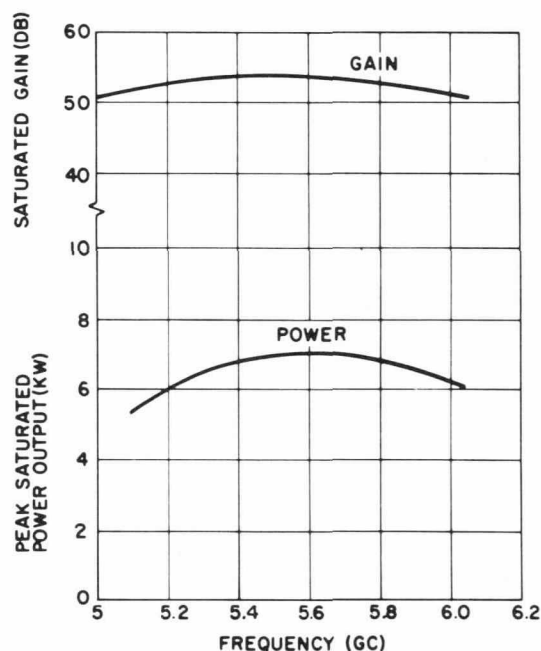
APPLICATIONS

radar
 ecm

MECHANICAL & MISCELLANEOUS

VSWR, max, cold
 Input 3.0
 Output 3.0
 Cath. -to-ground pf (max) 20
 Phase Shift, deg/1% change in cathode voltage (max) 45
 Weight, lb. max 13
 Over-all length, in. 20
 Mounting position Any
 Cooling Forced air on coll.
 Flow, cfm min. 20
 Connectors
 RF input N, female
 RF output N, female

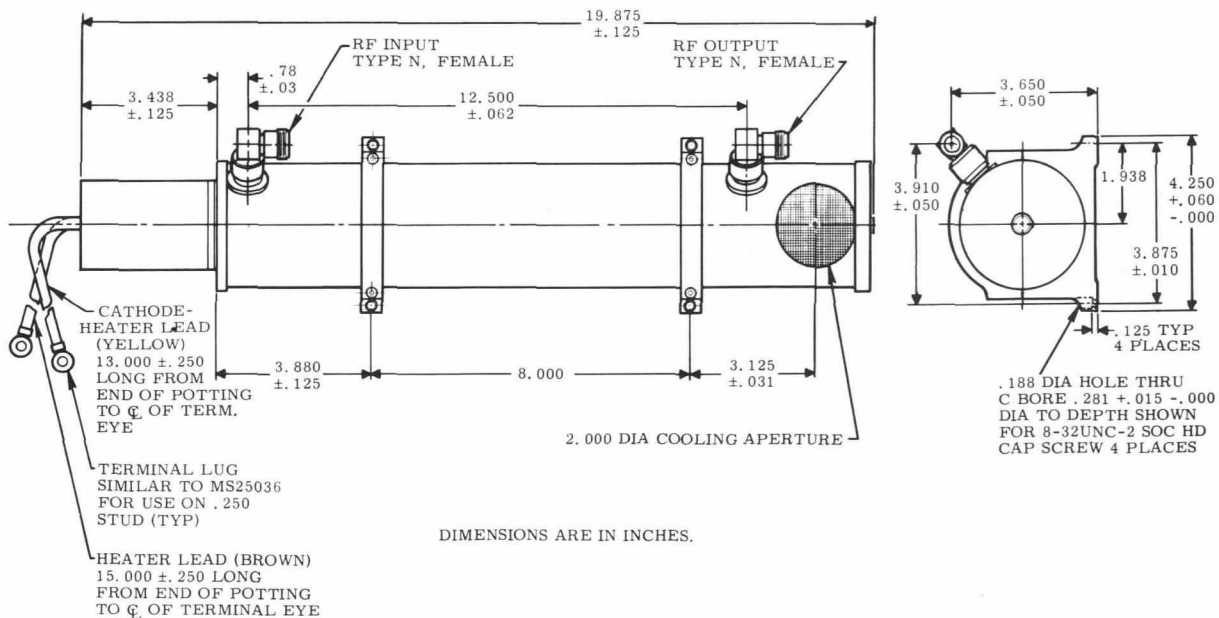
TYPICAL CHARACTERISTICS



OPERATING CONDITIONS * †

Htr. v ac or dc	6.3
Htr. amp (max.)	3.5
Cath. kv dc**	
with resp. to anode	-14 to -16
Peak cath. amp	4.5

OUTLINE



NOTES

- * For the performance ratings specified, the cathode voltage should be adjusted to the value specified by instructions accompanying each tube. This value will be within the range given above.
- † The cathode voltage may be set at various values between -14 and -16 kv to obtain different power and gain characteristics.
- ** The anode, r-f circuit, and collector are connected to the tube package which should be grounded.