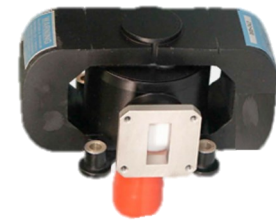


Coaxial Pulsed Magnetron - 70 kW L4553

The L-4553 is a coaxial, fixed frequency pulse magnetron designed as a replacement version of the JAN 4J52A. The tube exceeds the maximum environmental conditions of the older tube design. The L-4553 is recommended for use in all airborne applications where nominal powers of 80 KW are required, and in any ground and airborne application which requires extreme reliability, combined with compactness and high efficiency.

Versions of this magnetron are available at other center frequencies and with more rugged mechanical characteristics.



KEY FEATURES

- * 70 kW Minimum Peak Power
- * Fixed Frequency 9375 ± 20 MHz

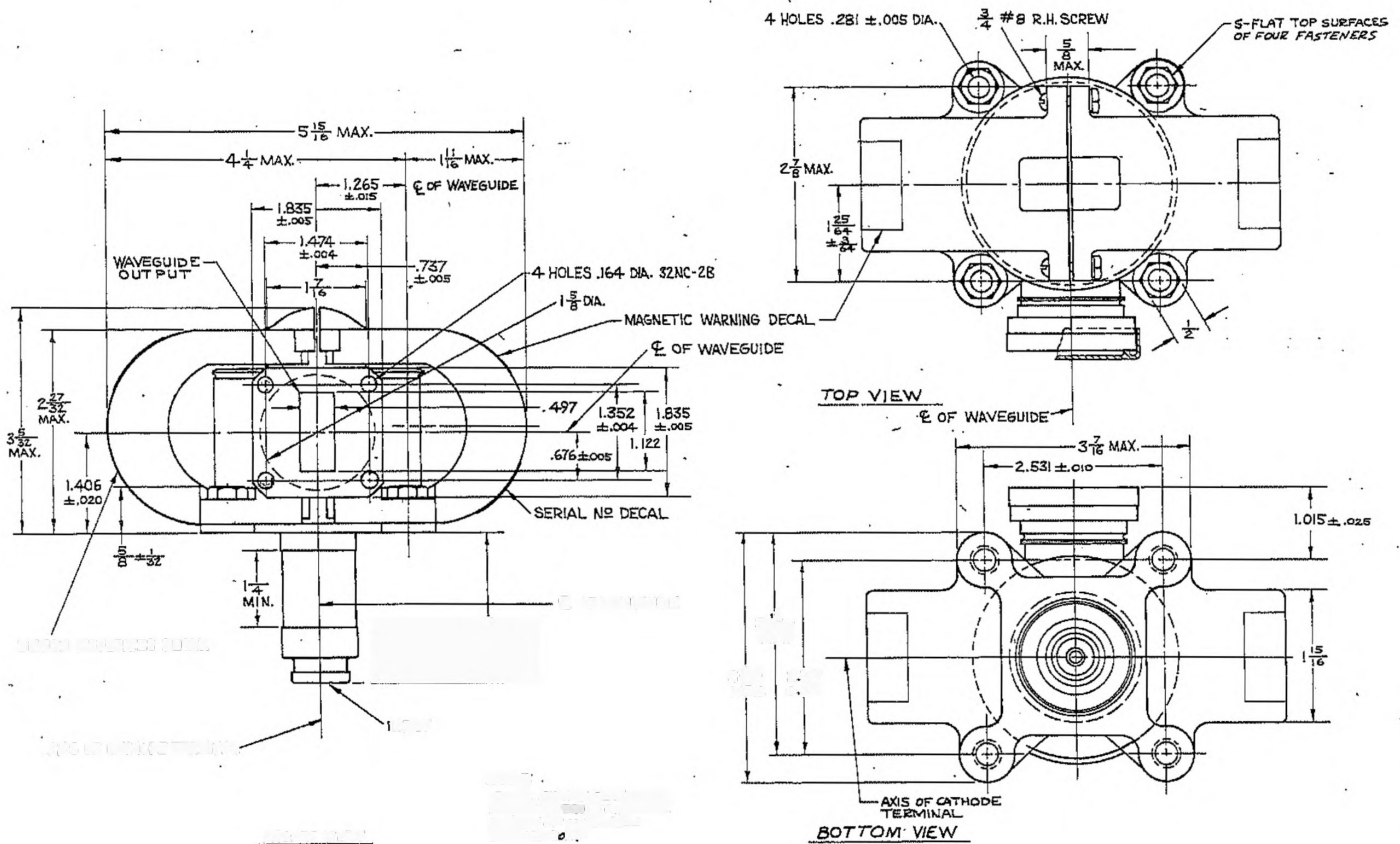
Operating Conditions	
Heater Voltage	12.6 V
Heater Current	2.2A
Preheat Time	Min. 180 seconds
Pulse Voltage	14 to 15 kV
Pulse Current	15 A
Rate of Rise of Voltage	Max. 160 kV/

Performance Characteristics	
Peak Power	12.6 V
Fixed Frequency	2.2A
Pulling Factor (1.5:1 VSWR)	Max. 4 MHz/amp
Pushing Figure (±10% lb.)	Max. .09 MHz/amp
Missing Pulses	15 A
Side Lobes	Min. 8.0 db
Bandwidth	Max. 2.0/tpc. MHz
Anode Temperature Coefficient	Max. 0.18 MHz/°C
Vibration (50 to 500 c.p.s.)	10 G
Shock (4 ms)	50 G

Mechanical Ratings	
Dimensions	See outline drawing
Mounting Positions	Any
Weight	Approximately 6 lbs.
Mating Mounting Flange	UG-52/U
Anode Cooling	Forced Air Required
Output Pressurization	Max. 45 lbs./ sq. in
Cathode Pressurization	Max. 45 lbs./ sq. in.

Coaxial Pulsed Magnetron - 70 kW L4553

L4553 Outline (inches)



Detailed outline drawings are available on request. Specifications and features are subject to change without notice.

Stellant Systems is a partner for civil, military, and commercial organizations whose missions seek to ensure a safe, aware, and connected world. We are a premier manufacturer of critical spectrum and power amplification systems for defense, space, medical & scientific and industrial customers worldwide.

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