Coaxial Magnetron, X-band, 65 kW

L4553A

The L4553A is designed for fixed-frequency operation between 9345 and 9405 MHz. It delivers a minimum output power of 65 kilowatts and features an integral magnet. The unit is air-cooled for efficient thermal management.

KEY FEATURES

- Peak output power 65 kW min.
- Fixed frequency, 9345-9405 MHz
- Typical duty cycle .001
- Forced-air cooling
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- Permanent magnets (Alnico)
- Output to WR-112 waveguide
- Jettron plug-in cathode/filament socket

SPECIFICATIONS

Electrical Characteristics	
Frequency Range (MHz)	9345-9405
Power Output, peak (kW)	65 min
Anode voltage (kV)	14.7-14.9
Anode current, peak (A)	15.0
Filament Voltage, stand-by (V)	12.6
Filament Current, stand-by (A)	2.0-2.4
Filament warm-up time (s)	180 min
Pulse Length, typical (µs)	5.0
Duty Cycle, typical	.001
Maximum load VSWR	1.5:1
Frequency pulling (1.3:1 VSWR)	5 MHz max
Rate of Rise of Voltage (kV/µs)	54-187

Mechanical/Environmental	
Cooling	Conduction, Forced air
Magnetization	Integral, Alnico
Output Connection	UG-52 A/U (WR 112)
Input Connection	Mates with Jettron 90-001
Max Body Temperature (°C)	0.2 max
Waveguide pressurization (PSIA)	10 minimum, operational
Maximum operating altitude (ft)	55,000

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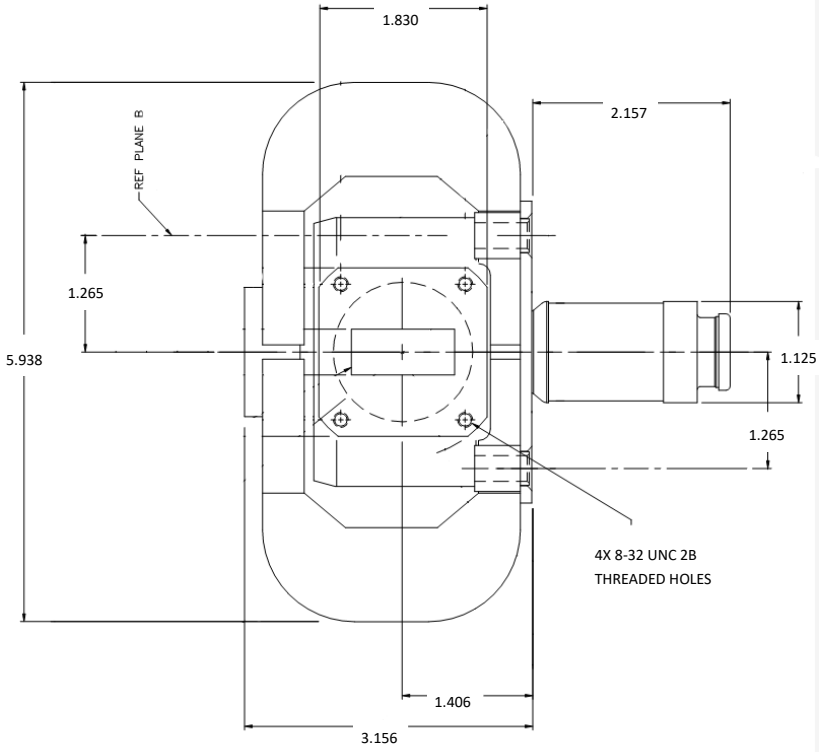
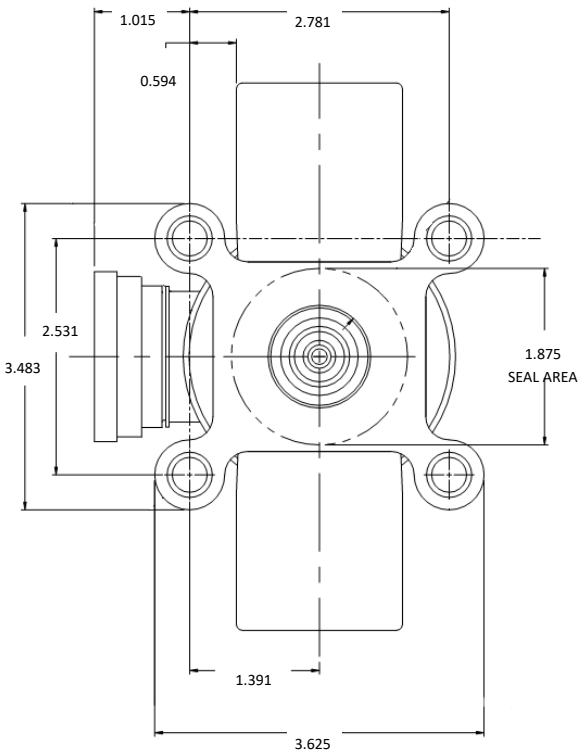
**Dimensions in inches unless otherwise indicated.*





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

Stellant Systems is a premier manufacturer of critical spectrum and RF power amplification products to the space, defense, medical, science, and industrial markets for both domestic and international customers. Stellant has 5 domestic manufacturing facilities and approximately 1,100 employees.

Headquarters

3100 Lomita Blvd.
Torrance, California 90505
T: 310-517-6000
info@stellantsystems.com
Sales@stellantsystems.com

AS9100D CERTIFIED ISO 9001

Made in USA

www.StellantSystems.com