

IOT 4480

UHF-TV Transmitter Tube

Stellant Systems' IOT 4480 is a high-efficiency tube operating in the UHF-TV frequency range of 470 to 810 MHz.



IOT 4480

SPECIFICATIONS

RATINGS	MIN	MAX	UNITS
Heater Voltage	5	7	V
Heater Current, Operating	20	30	A
Heater Current, Surge	—	60	A
Heater Warm-Up Time	300	—	sec
Beam Voltage	22	36	kV
Quiescent Current	0.4	0.7	A
Body Current	—	60	mA
Solenoid Current	22	27	A
Collector Dissipation	—	55	kW
Load VSWR	—	1.5:1	—
Bias Voltage (referenced to cathode)	-50	-150	V
Grid Current	—	±150	mA
Ion Pump Current, Beam On	—	20	µA
Ion Pump Voltage (referenced to cathode)	—	4	kV
Peak/Average Output Power (8 VSB)	—	130/30	KW/kW
Peak/Average Input Power (8 VSB)	—	1500/250	W

MECHANICAL CHARACTERISTICS

Mechanical Dimensions	See outline drawing
Mounting Position	Collector end down
Focusing	Electromagnet
Cooling	
Maximum Inlet Pressure	60 psi
Maximum Inlet Water Temperature	55 °C
Maximum Outlet Water Temperature	75 °C
Minimum Collector Flow (RO or DI water)	14.5 gpm
Minimum Body Flow (RO or DI water)	1.3 gpm
Collector Pressure Drop	40 psi
Air Flow to Input Cavity Mounted to Tube	90 cfm
Air Pressure at Intake	5"
Maximum Air Temperature at Intake	60 °C
Weight (approx.)	50 lb

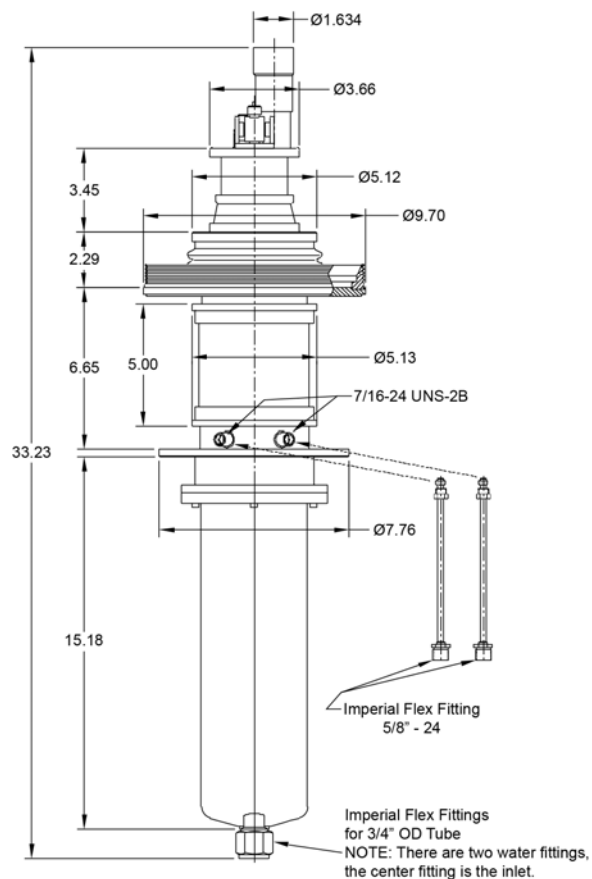
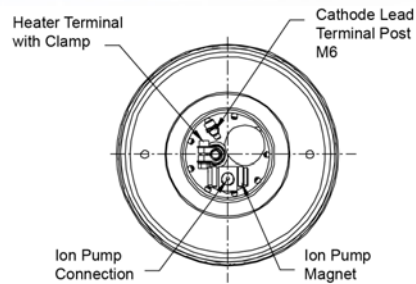
Go Farther.

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Outline Drawings

measurements in inches



Please contact Stellant's Williamsport, PA facility for additional information, specific product requests, and/or requirements.

www.StellantSystems.com

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 and industrial customers worldwide.

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