

UHF-TV Transmitter Tube

CEA 4201

The CEA 4201 is the highest efficiency tube operating in the UHF-TV frequency range of 470 - 810 MHz. By combining a multistage depressed collector with an inductive output amplifier, DC input power is made almost proportional to RF output over a wide power range. The amplifier has been designed for use in digital transmitters.

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		38	kV
Quiescent Curent		0.6	A
Beam Current		2.5	A
Solenoid Current		25	A
Load VSWR		1.5:1	
Bias Voltage (Referenced to Cathode)		-250	V
Grid Current		±150	ma
Ion Pump Current, Beam On		20	μА
Ion Pump Voltage (Referenced to Cathode)		4	kV
Peak/Average Output Power (8VSB) kW		130/30	KW/
Peak/Average Input Power (8VSB)		1500/25	ow
IOT MECHANICAL DESCRIPTION			
Dimensions See Outline			
Weight (approximately)	70 lb		
ounting Postition Collector, end of			own
TROLLEY ASSEMBLY MECHANICAL DESC	RIPTIO	N	
Electromagnetic Voltage	4.5	6.3	V
Electromagnetic Current	20	28	A
RF Input			Type N
Output 3 1/8", I		3 1/8", EI	Α, 50 Ω
Net Weight of tuning cavities (approx)			110 lb
Net Weight of magnet assembly (approx)			300 lb
Collector Cooling			
Maximum Inlet Oil Pressure			
Maximum mict on Fressure			70 psi
Maximum Inlet Oil Temperature			70 psi 65 ° C
Maximum Inlet Oil Temperature	emp.)		65 ° C 75 ° C
Maximum Inlet Oil Temperature Maximum Outlet Oil Temperature	emp.)		65 ° C 75 ° C
Maximum Inlet Oil Temperature Maximum Outlet Oil Temperature Minimum Collector Oil Flow (at operating to			65 ° C 75 ° C
Maximum Inlet Oil Temperature Maximum Outlet Oil Temperature Minimum Collector Oil Flow (at operating to Anode Cooling Maximum Inlet Temperature (water or glyce			65 ° C 75 ° C 15 gpm
Maximum Inlet Oil Temperature Maximum Outlet Oil Temperature Minimum Collector Oil Flow (at operating to Anode Cooling			65 ° C 75 ° C 15 gpm
Maximum Inlet Oil Temperature Maximum Outlet Oil Temperature Minimum Collector Oil Flow (at operating to Anode Cooling Maximum Inlet Temperature (water or glycol)			65 ° C 75 ° C 15 gpm 65 ° C 0.9 gpm
Maximum Inlet Oil Temperature Maximum Outlet Oil Temperature Minimum Collector Oil Flow (at operating to Anode Cooling Maximum Inlet Temperature (water or glycol) Pressure Drop			65 ° C 75 ° C 15 gpm 65 ° C 0.9 gpm



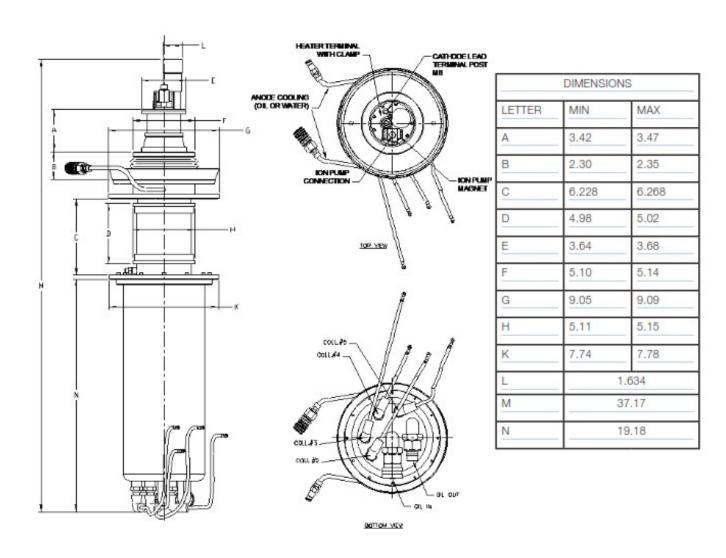
Specifications are subject to change without notice.



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Outline Drawing (Dimensions in inches)



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