

ITL15-2 Power Triode

ITL15-2 is forced air cooled, metal/ceramic coaxial power triode, with thoriated-tungsten filament, intended for use in industrial heating, as well as pulse oscillator. Max frequency: 120MHZ, max plate dissipation: 17KW.

General Characteristics

Filament voltage	7.2	V
Filament current	180	A
Filament surge current	500	A
Interelectrode capacitance		
Grid-Anode	25	pF
Grid-Cathode	60	pF
Anode -Cathode	1.4	pF
Amplification factor	25	
Transconductance ($V_a=10Kv, I_a=4A$)	60	mA/V
Operating position	Vertical, anode up or down	
Cooling	Forced air	
Cooling air flow, min	≥ 5	m^3/m
Max inlet air temperature	60	$^{\circ}C$
Temperature at seal, max	220	$^{\circ}C$
Net weight	9	kg

Maximum ratings

Operating frequency	120	MHz
Anode voltage		
Below 30MHz	13	kV
60~90MHz	11	kV
60~90MHz	9	kV
90~120MHz	7	kV
Anode current	8	A
Grid voltage	-1500	V
Grid current (full load)	1.6	A
Grid current (no load)	3.0	A
Peak cathode current, CW	40	A
Peak cathode current, pulse	49	A
Anode dissipation power	17	kW
Grid dissipation		
Below 30MHz	600	W
30~60MHz	520	W
60~90MHz	160	W
90~120MHz	400	W

Typical operation

Class C Radio Frequency Oscillator for Industrial applications (30MHZ)

Anode voltage	12	10	kV
Anode current	5.0	6.0	A
Grid bias voltage	-650	-600	V
Grid voltage	911	919	V
Grid current, on load	0.33	0.61	A
Grid dissipation	76	170	W
Grid resistance	1970	1000	Ω
Anode dissipation	14.5	14.5	kW
Anode Input power	60	60	kW
Anode Output power	45	45	kW
Feedback ratio	8.4	10.1	%
Oscillator efficiency	75	75	%



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