

**ITL12-1
Power Triode**

ITL12-1 is a 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: 12KW.

General Characteristics

Filament voltage	5.8	V
Filament current	145	A
Filament surge current	600	A
Interelectrode capacitance		
Grid-Anode	21	pF
Grid-Cathode	55	pF
Anode -Cathode	1	pF
Amplification factor		22
Transconductance (V _a =10Kv, I _a =4A)	50	mA/V
Operating position	Vertical, anode up or down	
Cooling	Forced air	
Cooling air flow, min	≥6	M ³ /m
Max inlet air temperature	45	°C
Temperature at seal, max	250	°C
Net weight	6.5	kg

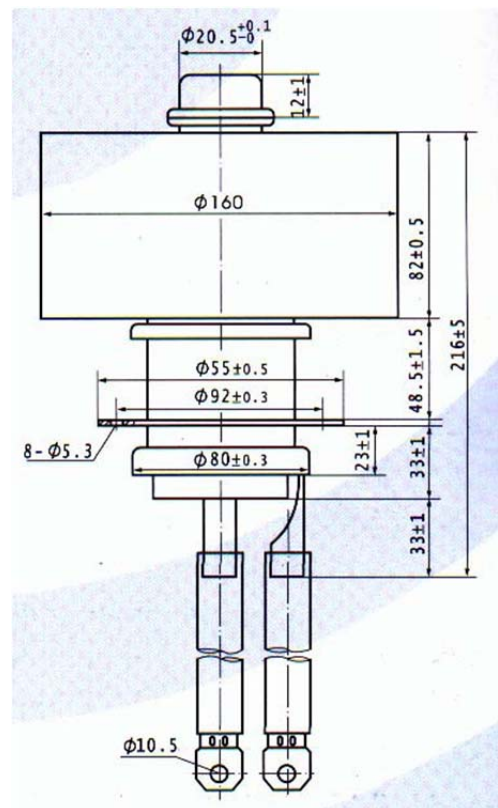
Maximum ratings

Operating frequency	120	MHz
Anode voltage		
Below 30MHz	12	kV
60~90MHz	9	kV
60~90MHz	7	kV
90~120MHz	6	kV
Anode current	5	A
Grid voltage	-1500	V
Grid current (full load)	0.8	A
Grid current (no load)	1.5	A
Peak cathode current, CW	28	A
Peak cathode current, pulse	38	A
Anode dissipation power	12	kW
Grid dissipation		
Below 30MHz	350	W
30~60MHz	320	W
60~90MHz	300	W
90~120MHz	280	W

Typical operation

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

Anode voltage	10	8	kV
Anode current	4.3	4.8	A
Grid bias voltage	-640	-560	V
Grid voltage	960	900	V
Grid current, on load	0.53	0.72	A
Grid dissipation	145	220	W
Grid resistance	1210	790	Ω
Anode dissipation	9.6	8.6	kM
Anode Input power	40	38.4	kM
Anode Output power	33	29	kM
Feedback ratio	10.5	12.9	%
Oscillator efficiency	76.5	76	%



Distributore per l'Italia: