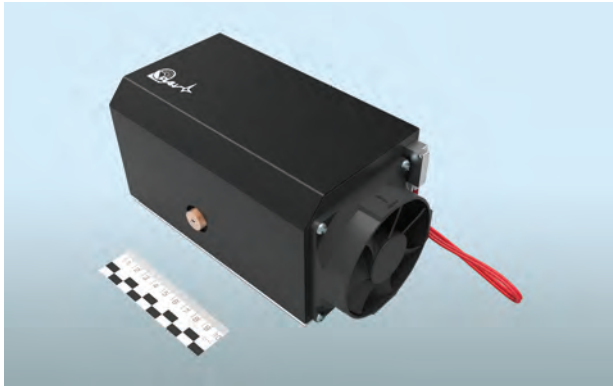


W-BAND MAGNETRONS



Areas of Application

Radar transmitters and plasma diagnostics



95 GHz W-band magnetron with a 1 kW power output

Specification

Parameters	AM310/1-1	AM310/3-1	AM310/10-1
Peak power, kW	1.0	3.0	12.0
Peak anode voltage, kV	6	10	15
Peak anode current, A	4.5	10	17
Frequency, GHz	94.0–95.5	94.0–95.5	94.0–95.5
Filament voltage, V	1.1	2.5	2.6
Filament current, A	3.8	4.0	4.3
Pulse duration, ns	50–100	50–200	100–200
Duty cycle, max, %	0.1	0.1	0.1
Lifetime, h	5000	5000	5000
Weight, kg	0.6	1.4	1.8
Dimensions, mm	135 × 70 × 70	150 × 95 × 88	200 × 95 × 87

Advantages

Highly stable, low-jitter RF pulsed source; platinum cold secondary-emission cathode; samarium-cobalt magnets; high peak and average power

Stage of Development. Suggestions for Commercialization

IRL8, TRL7
Manufacture, delivery, warranty service, and staff training, upon request

IPR Protection

IPR1

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