

20 kW CW S-band Magnetron

Model CWM-20S

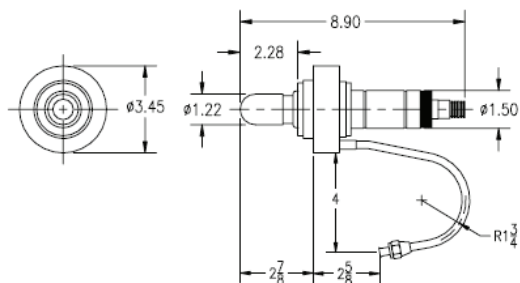
- 2450 MHz operation
- CW Power Output - 20 kW
- 70% efficiency, typical
- Water-cooled anode
- Coaxial launch into WR-430
- External electromagnet



Specifications:

Characteristic	Specification	Typical
Frequency of operation (fixed):	2450 MHz	2450 MHz
Frequency variation	+/- 30MHz	+/- 10MHz
CW Power output, minimum:	20 kW	21 kW
Anode Voltage:	14.5 kV	14.2 kV
Anode Current:	2.1 A	2.1 A
Efficiency:	67%	70%
Filament Voltage (standby):	9.5 V	9.5 V (See filament current backdown schedule)
Filament Current:	54 A +/- 3 A	54 A
Load VSWR, maximum:	1.5:1 (circulator required)	
RF launch type:	Coaxial, into WR-430	
Cooling		
Water Flow (anode), minimum:	2.5 gpm	
Air Flow (cathode), minimum:	10 cfm	
Air Flow (dome), minimum:	20 cfm	
Weight, maximum:	3.5 lbs/6.159 Kg	

Tube Outline Dimensions (inches):



Filament Current Backdown Schedule:

