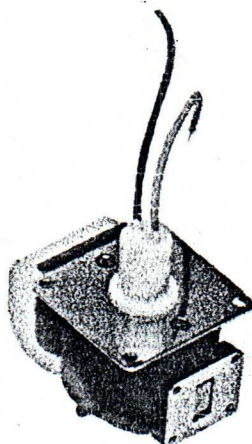


RM-121 / MA-2859

Pulsed X-Band Coaxial Magnetron

Bulletin 1562



DESCRIPTION

A sturdy, lightweight unit incorporating coaxial design. The RM 121 provides efficient fixed frequency operation for X-band applications requiring a minimum peak power of 10 kilowatts.

APPLICATIONS

Beacon, navigation systems, and airborne weather radar systems.

MICROWAVE ASSOCIATES, WATSONVILLE, INC. d/b/a

RELMAG DIVISION • MICROWAVE ASSOCIATES, INC.

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Microwave Associates, Inc. Burlington, Massachusetts Tel. (617) 272-3000

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SPECIFICATIONS

Electrical Characteristics

Peak Power	10 kW
Fixed Frequency	9345 MHz
Pulling Factor (1.3:1 VSWR)	6 MHz Max.
Pushing Factor ($\pm 10\% 1_b$)	.75 MHz/A
Missing Pulse Rate	.25% Max.
Side Lobes	8 dB Min.
Thermal Coefficient	.250 MHz/ $^{\circ}$ C Max.

Mechanical Characteristics

Size	See Outline Drawing
Weight	3 lbs./1,36 kg
Mounting Position	Any
Output Connector	Waveguide Mates with UG/39U Flange

Operating Conditions

Heater Voltage*	6.3 V
Heater Current	.7 A Max.
Preheat Time	45 Sec. Min.
Pulse Voltage	5000 V
Pulse Current	5 A
Duty Cycle	.001 Ratio Max.

Environmental Characteristics

Cooling	Conduction and/or Convection
Ambient Temperature	-54 $^{\circ}$ C to 71 $^{\circ}$ C
Altitude	65,000 Ft./19812 m
Vibration (40 to 1,000 cps)	3 G
Shock (11 \pm 1 ms)	10 G

OUTLINE DRAWING

