

**MA5362B MPD Magnetron Product Information**

The MA5362B is a fixed frequency 10 kW 9.345 GHz "coaxial" magnetron for use in various OEM airborne radars. The MA5362B cross-references to OEM outline specification 4004505-0001 and OEM purchase specification 4009028. It is designed to work up to 55,000 feet in altitude and between -55 °C and +85 °C. The MA5362B typically operates at 5.0 kilovolts and 5.0 amps peak.

**Test Conditions**

Parameter	Units	Test Condition		
		1	2	3
Pulse Width	μSec.	3.5	2.35	0.5
Duty, Du	(ratio)	0.00035	0.00047	0.0004
Time of Steepest Voltage Rise, $t_{srV}$	μSec.	0.1		
Filament Voltage, $E_f$	VDC	6.3±0.5%		
Minimum Cathode Warmup, $t_k$	Seconds	60		
Peak Plate Current	A	5.0		

**Electrical Performance**

Test	Units	Minimum	Nominal	Maximum
Heater Current, $I_f$ (@6.3 VDC)	ADC	1.5	-	1.7
Minor Lobes	dB	8.0	-	-
Pulse Voltage, $e_{px}$	kV	4.75	5.0	5.25
RF Power Output, $P_O$	kW	10.0	-	-
Frequency, F	MHz	9325	9345	9365
Pulling Factor (VSWR 1.3:1) DF	MHz	-	-	5.0
Pushing Factor (5.0A±8.6%) DF/ $i_b$	MHz/A	-	-	0.75
Temp. Coefficient (-55 to +85°C)	MHz/°C	-	-	0.25
RF Bandwidth, BW	MHz	-	-	2.5/t
Altitude	feet	-	-	45,000

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