

# PRODUCT SPECIFICATIONS

Spec No.	607201 G	Page	3/10
Model No.	2M259-M12WJ		

This Specifications is based on the General Rules of Inspection for Electron Tubes ED-1101 and the Testing Methods for Continuous Wave Magnetrons ED-1501 set by the Electronic Industries Association of Japan (EIAJ).

Description	Continuous wave Magnetron (Fixed Frequency, Packaged Magnet, Probe Output)											
Outline	Refer Outline Drawing					Net weight	Approx. 2.3 Kg					
Absolute Maximum Ratings	Item	Ef	Ef	tk	Ebm	Ib	Ibm	Pi	$\sigma L$	Tp	Tc	Storage
		Start-by Operation		( <sup>2</sup> )						( <sup>4</sup> )	( <sup>4</sup> )	
	Unit	V	V	sec	kV	mAdc	A	kW	-	°C	°C	°C
	Max.	5.0	( <sup>2</sup> )	-	4.3	750	2.1	2.6	4	180	120	60
Min.	4.4	( <sup>3</sup> )	5	-	-	-	-	-	-	-	-30	
Standard Test Conditions ( <sup>1</sup> )	4.6	3.4	8	-	725	-	-	MAX 1.1	-	-	-	-

## Test Specifications

Test Item ( <sup>b</sup> )	Test Method (ED-1501)	Test Conditions ( <sup>c</sup> )	Symbol	Nominal	Limit		Unit
					Min.	Max.	
* Filament Current	4.1.1	tk=120s	If	20	18	22	A
Peak Anode Voltage	4.3.1	( <sup>5</sup> )	ebm	4.00	3.80	4.20	kV
Average Output Power (1)	4.3.3.1	( <sup>5</sup> )	Po(1)	2030	1830	-	W
Frequency	4.3.4	( <sup>5</sup> )	f	2455	2440	2470	MHz
Breakdown Voltage	4.2	Eb=10kVdc or 7.1kVac ( <sup>6</sup> ) grading voltage up	BVaf	No unusual phenomenon occur			
* Stability Moding	4.3.11.2	$\sigma L=3$ or less	ST	No moding occur			
Insulation	-	1kVdc	Raf	-	100	-	MΩ
** Life Test ( <sup>7</sup> )	4.5.1	-	t	-	500	-	h
** Life Test End Point	Variation Rate against Average Output Power(1)	4.3.3.1	Po(1)	-	-	20	%
	Stability Moding (1)	4.3.11.2	ST	No moding occur			

## Classification of tests.

\*\* mark: Type approval Test.

\* mark: Design Test.

None. Production Test.

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Fig.1 Cut back of Filament voltage on operation condition

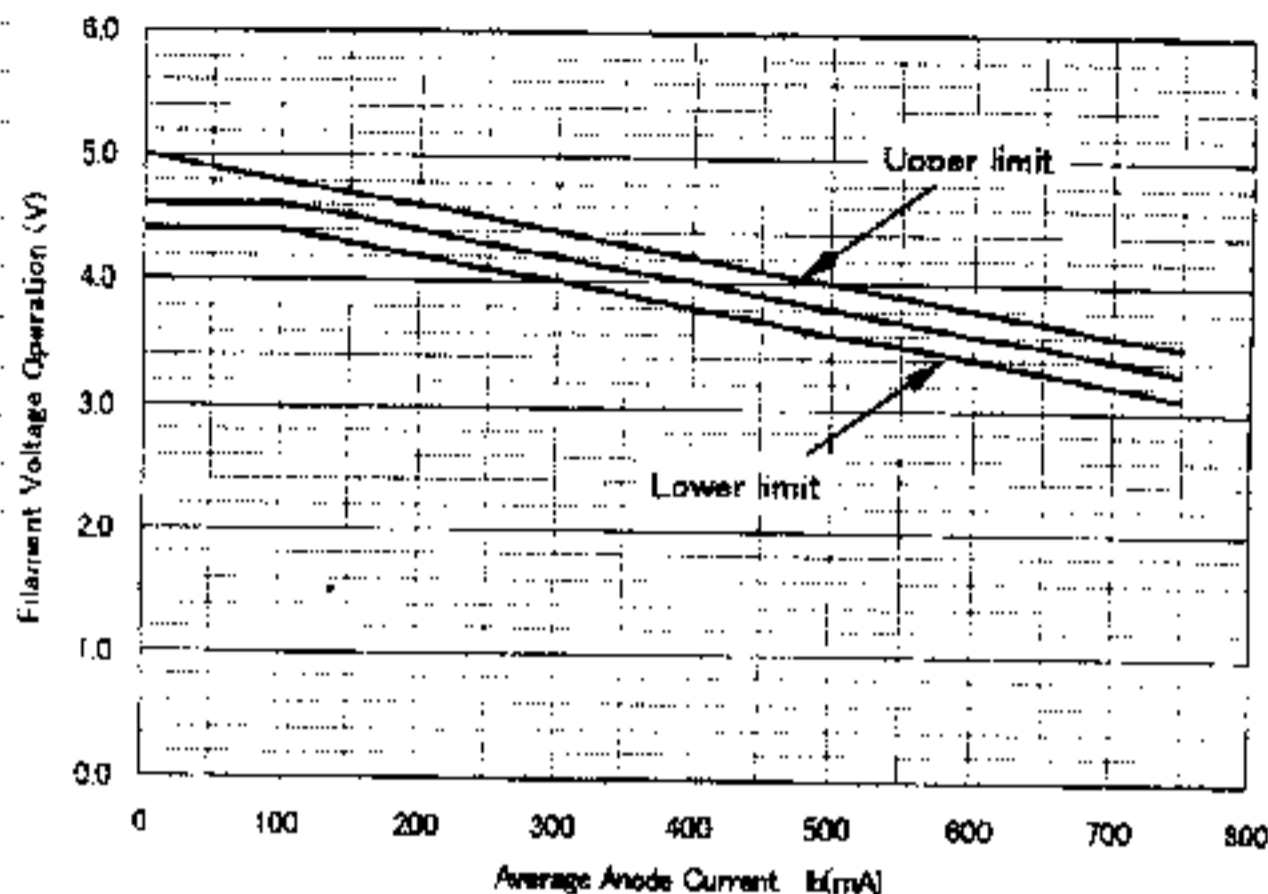
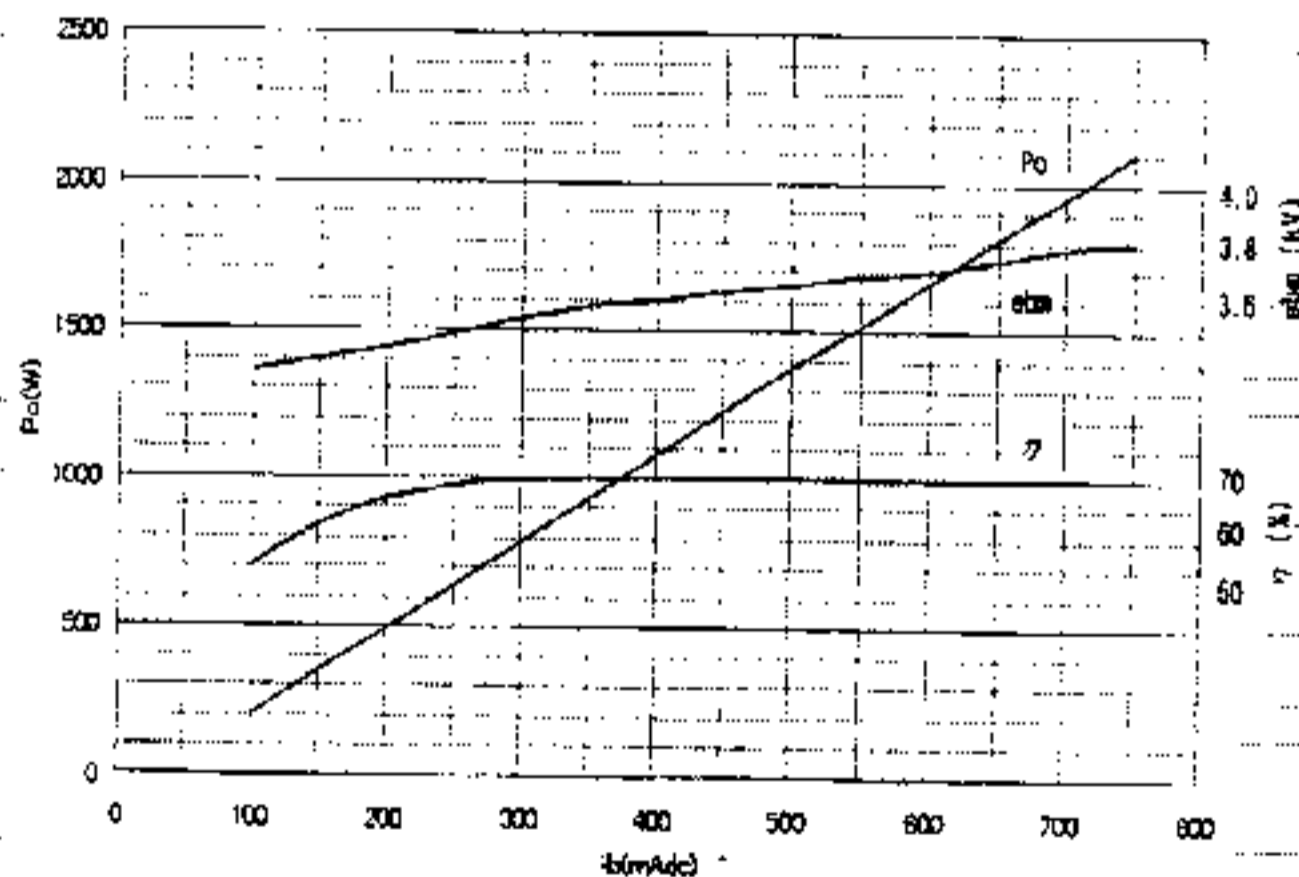


Fig.2 Performance Chart



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