

Gridded Electron Gun Acceptance Test Procedure

Date: _____ Tester: _____ S/N: _____

These Acceptance Test to be performed 100%

Electrical Inspection:

<u>Test</u>	<u>Test Condition</u>	<u>Specification</u>		<u>Measurement</u>	<u>Units</u>
		Min	Max		
Hi Pot	Filament Off	-30		_____	KV
Leakage	Filament Off Beam Voltage = -25 KV		100	_____	μA
Emission (Filament Current)	Ef = 6.3 V		4.25	_____	A
Cathode Roll-Off	Beam Voltage = -13.2 KV Pulse Width = 5 usec Grid = 95 V (ind)	300		_____	mA
"Knee" (include plot with Data)				_____	V

Mechanical Inspection:

<u>Test</u>	<u>Test Condition or Comments</u>	<u>Specification</u>		<u>Measurement</u>
Electron Gun Data Sheet	Confirm all data meets internal Specifications as shown on ALT-04-[7.5.1]-004	Pass	Fail	_____
Outline	Confirm proper orientation and RTV molding conformance and Lead Length per A102414			_____

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These Test Performed on Sample Basis 10%

Electrical Inspection:

<u>Test</u>	<u>Test Condition</u>	<u>Specification</u>		<u>Measurement</u>	<u>Units</u>
		Min	Max		
	Beam Voltage = 25 KV Duty = 0.2% Pulse Width = 5 usec Ef = 6.3 V Nominal				
Current	If =		4.25	_____	A
Grid Drive	Egrid =		200	_____	V
Grid Current (peak)	Igrid =	125		_____	mA
Beam Current (peak)	Ibeam =		1000	_____	mA
Grid Cut-Off	Egrid = -90 V		10	_____	μA
Grid Capacitance	Tested with -01 Lead Set		125	_____	pF
	Tested with -02 Lead Set		200	_____	pF

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