

External Product Specification Sheet - LAB

Specification	Value	Units
Part Number	98014	
Product Name	Eclipse IV	
Product Family	Eclipse	
Outline Drawing Number	8272	
Target Type	Transmission	
Target Material	Rh	
Window Thickness	250	µm
Window Material	Be	
Epoxy Coated Window	No	
Polarity	Grounded Anode	
Electron Source	Tungsten Filament	
High Voltage Range	10 - 45	kV
Beam Current Range	5 - 50	µA
Minimum Absolute Flux @45kV, 50µA	200	R/min
High Voltage Stability	0.03	% RSD
Nominal Spot Size	1500	µm
Radiation Leakage @ 10cm	< 1	µSv/hr
Anode Power	2.25	W
DC Input Vcc	12 to 17	VDC
Maximum Input Power	< 7	W
Weight	350	gm
Dimensions	6.6 ln x 1.5 dia	in
Operating Temperature	- 10 to + 50	°C
Storage Temperature	- 25 to + 60	°C
Humidity	30 - 90	% (non-condensing)
Cooling	air convection	
Warranty	12 months or 2,000POH	

Notes:

All specifications are at constant ambient temperature unless otherwise noted

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Interface Cable Pin-Out 16 Pin Ribbon Cable

Signal Name	Signal	Pin
Power - Vcc	+12 to +17 VDC	1,2
Power and Signal Ground	Ground	3,4
kV Monitor - output	0 to 4.5 VDC 0 to 45 kV	5
Enable	0 to 2.4 VDC off 2.6 to 17 VDC on	6
Beam Current Program - input	0 to 5.0 VDC 0 to 50 μ A Anode Current	7
Beam Current Monitor - output	0 to 5.0 VDC 0 to 50 μ A Anode Current	8
kV Monitor - output	0 to 4.5 VDC 0 to 45 kV	9
Precision 5 volt reference	5 VDC +/- 1% 10mA maximum current	10
Pressure Monitor - output	0 to 10 VDC 0 to 100 psig	11
Reserved - Do not Connect		12
Ready / Not Ready	Ready = 5 volts through 10Kohm resistor Not Ready = Gound through 1Kohm resistor	13
Reserved - Do not Connect		14
Reserved - Do not Connect		15
Not Connected		16

Length of Interface cable	10	ft
Interface Connector	16 pin ribbon connector	



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