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3 cm Filament Cathode / Filament Neutralizer DC Source Checkout

These data are representative of a 3 cm FC/FN source with standard grids. Actual run data will vary with specific system conditions.

These data are for general information purposes only.

Gas Flow Source/PBN	Gas Type	Chamber Pressure	Cathode	Discharge		Beam		Accel		Neutralizer		Probe	Beam Profile Data file
			Heater	Current	Voltage	Current	Voltage	Current	Voltage	Heater	Emission	Distance	
[sccm]		[x10-4 Torr]	[A]	[A]	[V]	[mA]	[V]	[mA]	[V]	[A]	[mA]	[cm]	
Source Warm up													
4.0	Argon	2.2	3.5	0.75	40.0	0	0	0	0	4	50	10 min warm up	
Beam On - Envelope test													
4.0	Argon	2.2	3.25	0.40	40.0	20	250	6	200	4.00	100		
4.0	Argon	2.2	3.21	0.38	40.0	20	500	2	200	4.00	100		
4.0	Argon	2.2	3.41	0.60	40.0	30	500	5	200	4.00	100		
4.0	Argon	2.2	3.52	0.77	40.0	40	500	5	500	4.00	100		
4.0	Argon	2.2	3.15	0.33	40.0	20	750	4	200	4.00	100		
4.0	Argon	2.2	3.37	0.55	40.0	30	750	5	200	4.00	100		
4.0	Argon	2.2	3.57	0.85	40.0	40	750	8	100	4.00	100		
4.0	Argon	2.2	3.73	1.10	40.0	50	750	13	150	4.00	100		
4.0	Argon	2.2	3.10	0.30	40.0	20	1000	5	100	4.00	100		
4.0	Argon	2.2	3.34	0.52	40.0	30	1000	5	100	4.00	100		
4.0	Argon	2.2	3.54	0.80	40.0	40	1000	5	100	4.00	100		
4.0	Argon	2.2	3.69	1.00	40.0	50	1000	7	100	4.00	100		
4.0	Argon	2.2	3.81	1.21	40.0	60	1000	9	200	4.00	100		
4.0	Argon	2.2	3.05	0.25	40.0	20	1250	6	100	4.00	100		
4.0	Argon	2.2	4.00	1.55	50.0	75	1250	12	150	4.00	100		
4.0	Argon	2.2	3.03	0.24	40.0	20	1500	7	100	4.00	100		
4.0	Argon	2.2	3.94	1.43	40.0	75	1500	10	150	4.00	100		
Total Time on source:				min.									