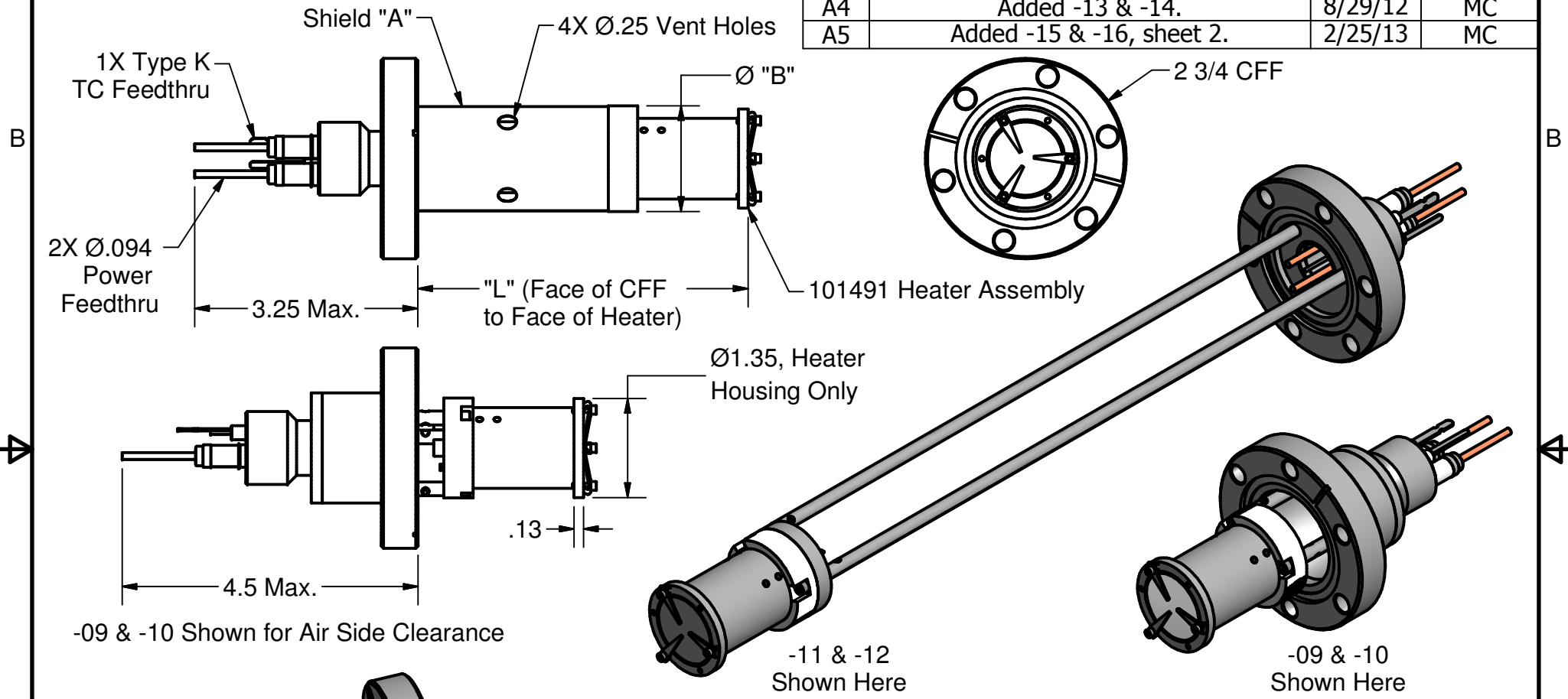


PARTS LIST

REVISION HISTORY

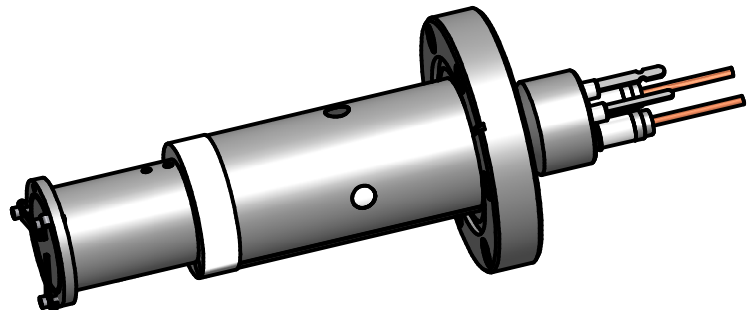
ITEM	QTY	PART #	DESCRIPTION
1	1	See Table A	2 3/4 CFF Mtd 101491 Htr. Assy., BOM

REV	DESCRIPTION	DATE	APPROVE
A2	Redrawn in Inventor, added -09 & -10.	5/24/10	MC
A3	Added -11 & -12, expanded Table A.	8/29/12	MC
A4	Added -13 & -14.	8/29/12	MC
A5	Added -15 & -16, sheet 2.	2/25/13	MC



A

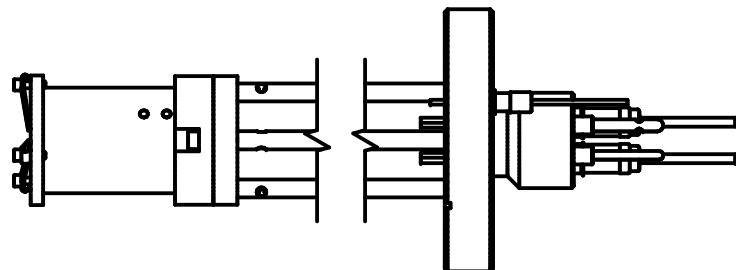
A



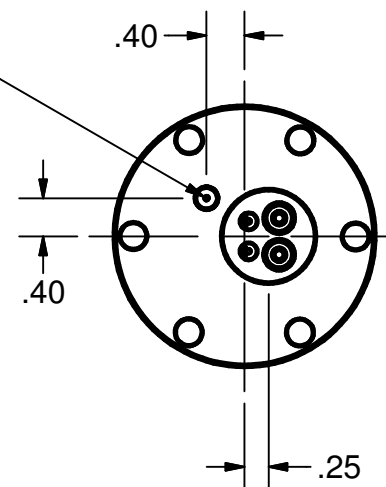
DRAWN	mcurtis	5/24/2010
CHECKED		
QA		
MFG		
APPROVED		
Material:		

<i>HeatWave Labs, Inc.</i>			195 Aviation Way, Suite 100 P: 831-722-9081 Watsonville, CA 95076 F: 831-722-5491 www.cathode.com	
<b>101491 Heater Assembly, 2 3/4 CFF Mounted</b>				
SIZE	Cage Code:	DWG NO	REV	
A	1YAN4	103079	A5	
SCALE	1/2		SHEET 1 OF 3	

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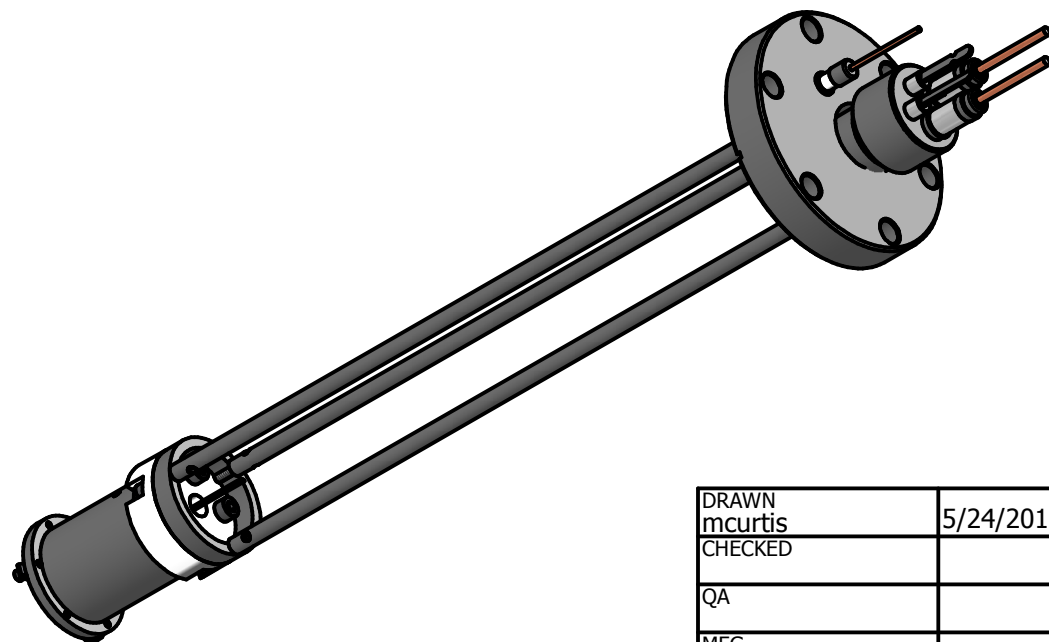
Ø.050 Cu Feedthru



B

B

-15 & -16 Shown on this Page



A

A

DRAWN mcurtis	5/24/2010
CHECKED	
QA	
MFG	
APPROVED	

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<b>101491 Heater Assembly, 2 3/4 CFF Mounted</b>			
SIZE A	Cage Code: 1YAN4	DWG NO 103079	REV A5
SCALE 1/2			SHEET 2 OF 3

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TABLE A							
Dash #	"L"	Atmosphere	CFF Type	"A"	"B"	Bias	Column 1
-01	4.50	UHV	Non-Rotatable	Yes	1.44	No	103082-01
-02	4.50	O2/UHV	Non-Rotatable	Yes	1.44	No	103082-02
-03	6.00	UHV	Non-Rotatable	Yes	1.44	No	103082-03
-04	6.00	O2/UHV	Non-Rotatable	Yes	1.44	No	103082-04
-05	5.00	UHV	Rotatable	Yes	1.44	No	103082-05
-06	5.00	O2/UHV	Rotatable	Yes	1.44	No	103082-06
-07	5.00	UHV	Non-Rotatable	Yes	1.44	No	103082-07
-08	5.00	O2/UHV	Non-Rotatable	Yes	1.44	No	103082-08
-09	2.25	UHV	Non-Rotatable	No	1.44	No	103082-09
-10	2.25	O2/UHV	Non-Rotatable	No	1.44	No	103082-10
-11	12.00	UHV	Non-Rotatable	No	1.34	No	103082-11
-12	12.00	O2/UHV	Non-Rotatable	No	1.34	No	103082-12
-13	6.43	UHV	Non-Rotatable	No	1.34	No	103082-13
-14	6.43	O2/UHV	Non-Rotatable	No	1.34	No	103082-14
-15	11.00	UHV	Non-Rotatable	No	1.34	Yes	103082-15
-16	11.00	O2/HV	Non-Rotatable	No	1.34	Yes	103082-16

Notes:

1. This assembly has been cleaned and handled for UHV use. Care should be taken not to contaminate the assembly.
2. All hook up details between the heater and CFF are not shown for clarity.
3. All assemblies are leak tight to  $1 \times 10^{-9}$  cc/sec Helium at the CFF sealing surface.
4. All UHV assemblies have one internally grounded heater lead. This results in the heater being common to the housing/sample clip assembly.
5. All assemblies with a bias feedthru have one heater lead grounded to the housing and sample clip assembly. All vacuum side wiring for the bias is done by the customer.
6. Estimated operation:

UHV  
 10.9V, 6.6A @ 1000°C  
 16.0V, 8.0A @ 1200°C  
 O2/UHV  
 18.5V, 9.1A @ 1000°C  
 23.0V, 10.5A @ 1200°C

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		<b>101491 Heater Assembly, 2 3/4 CFF Mounted</b>	
SIZE A	DWG NO 103079	REV A5	
SCALE 1/2	SHEET 3 OF 3		

