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# PLUS ( CPR) Heater Block

Semiconductor Technology America Inc.

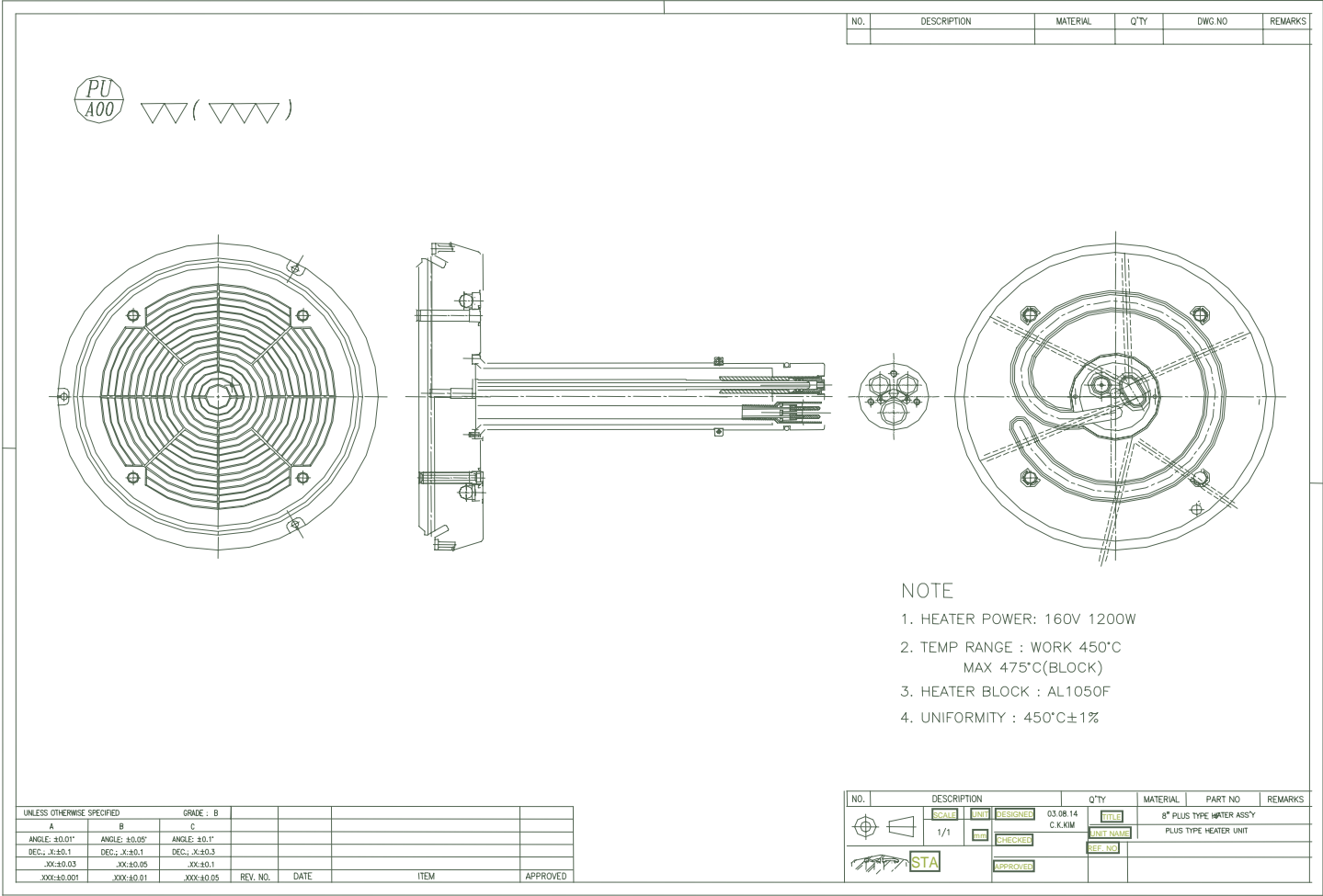
(Eugene, OR. USA)

# Specifications

<b>Product</b>	<b>PLUS</b>
<b>OEM part No</b>	<b>0010-04542</b>
<b>Equipment</b>	<b>P-5000</b>
<b>Maker</b>	<b>AMAT</b>
<b>Process</b>	<b>CVD-W deposition</b>
<b>Wafer</b>	<b>8-Inch</b>
<b>Warranty</b>	<b>One year</b>
<b>Connection</b>	<b>Connector-Type</b>

<b>Power</b>	<b>160V, 1200W</b>
<b>Heater resistance</b>	<b>21.3</b>
<b>Sheath</b>	<b>Inconel</b>
<b>Block</b>	<b>Aluminum</b>
<b>Temp.</b>	<b>&lt; 500</b>
<b>Temp. uniformity</b>	<b>&lt; 1% ( 9-point )</b>
<b>Leak Rate</b>	<b><math>1 \times 10^{-8}</math> torr° /sec</b>
<b>Surface Treatment</b>	<b>None</b>

# Drawings



# Final Inspection Sheet and Heating Test

Issue #	Final Inspection sheet			Approval	Rev. by	Approved by
Q-0830-04						
<b>1. General Items</b>						
Customer		SERIAL No.	PLUS08 - 408N005			
Product	PLUS Type CVDW HEATER BLOCK(Wxz)		Ship out	2004		
<b>2. Specification</b>						
Power	160V, 1200W					
Use Temp.	475					
<b>3. INSPECTION RESULTS</b>						
	Detailed Items	SPEC	RESULT	remarks		
Major Dimension	A	211±0.1	210.84	Attached Drawing		
	B	233.6±0.1	233.63			
	C	295.5±0.2	295.33			
	D	50.8 +0/-0.1	50.80			
	E	6.40 +0/-0.1	6.30			
	F	2.40 +0.1/-0	2.47			
	G	0.0 +0/-0.1	-0.1			
Electrical	Insulated Resistance(Power terminal)	>= 40 M	2000	M		
	Heater Resistance(Terminal-Terminal)	21.3 ± 1	22.2			
	Inner Voltage	More than 1 min at 1600V	O.K	JIS standard		
Heating	Temp. uniformity	<= Unif 1%		425 set		
LEAK	He Depressurizing	<= 10E-08	7.6 * 10 <sup>-9</sup>	Torr * /sec		
Flatness	X, Y Axis scan	(Max - Min) < 0.05	0.03			
Rectangularity	A right Rod	Ver. < 0.05	0.01			
	Surface Damage?	Excellent / Fine / Poor				
Inspection of shape	Ceramic Bushing included?	Excellent / Fine / Poor				
	Bushing Fixed Ring?	Excellent / Fine / Poor				
	TC Setting and Fixed screw?	Excellent / Fine / Poor				
	The scale of Helico Coil and its Setting?	Excellent / Fine / Poor				
	Power Connector setting?	Excellent / Fine / Poor				
	Bracket status?	Excellent / Fine / Poor				
	O-ring housing setting?	Excellent / Fine / Poor				
<b>4. Conclusion</b>						
Date of Inspector	2004.08.30	Result	Pass / Fail			
Discussion		Inspector				
<b>5. Remarks</b>						

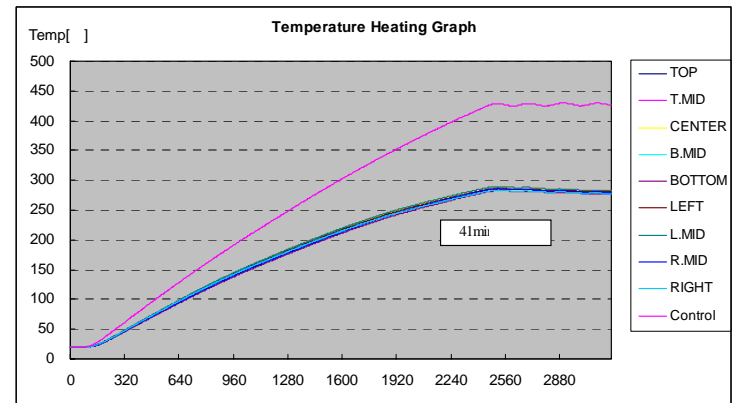
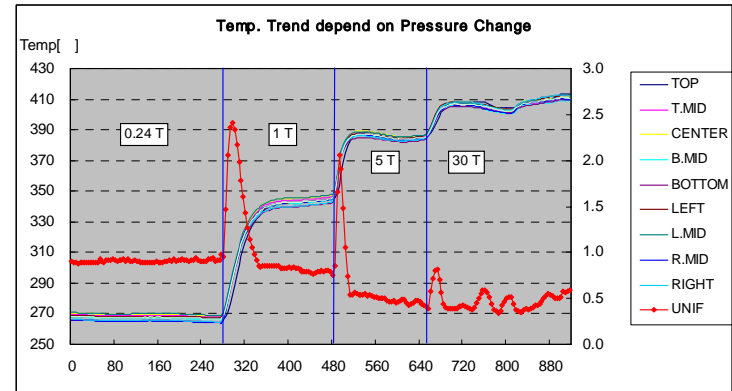
## Heating Test results

Serial No. : PLUS08-403N006

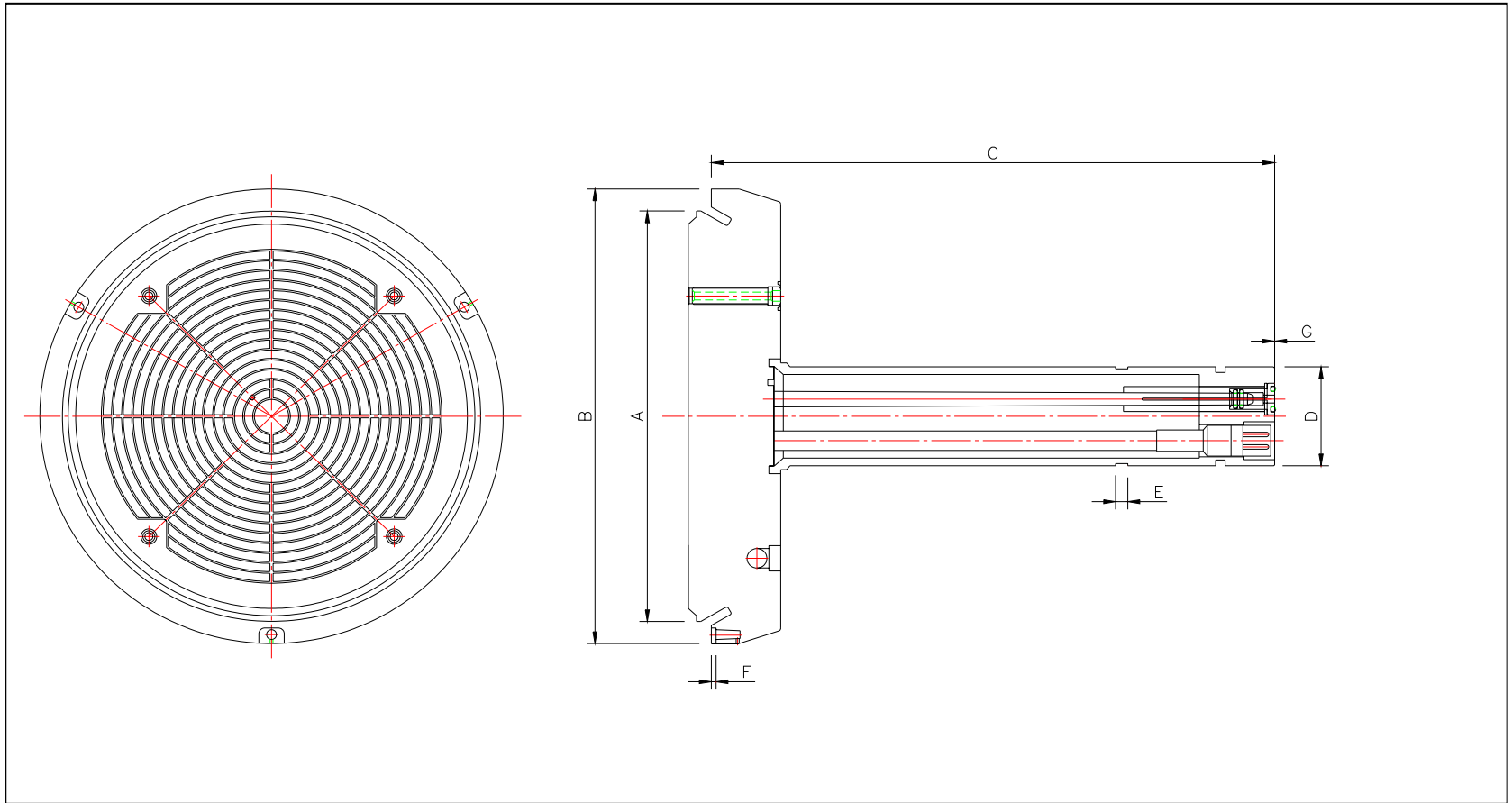
Setting Temp : 425

T/C Wafer : 9 points

TEST Method : Variation of Chamber Pressure ( 0.24T / 1.0T / 5.0T / 30T / 90T )



# QC Drawing



# Figure

