



PLUS (CPR) Heater Block

Semiconductor Technology America Inc.

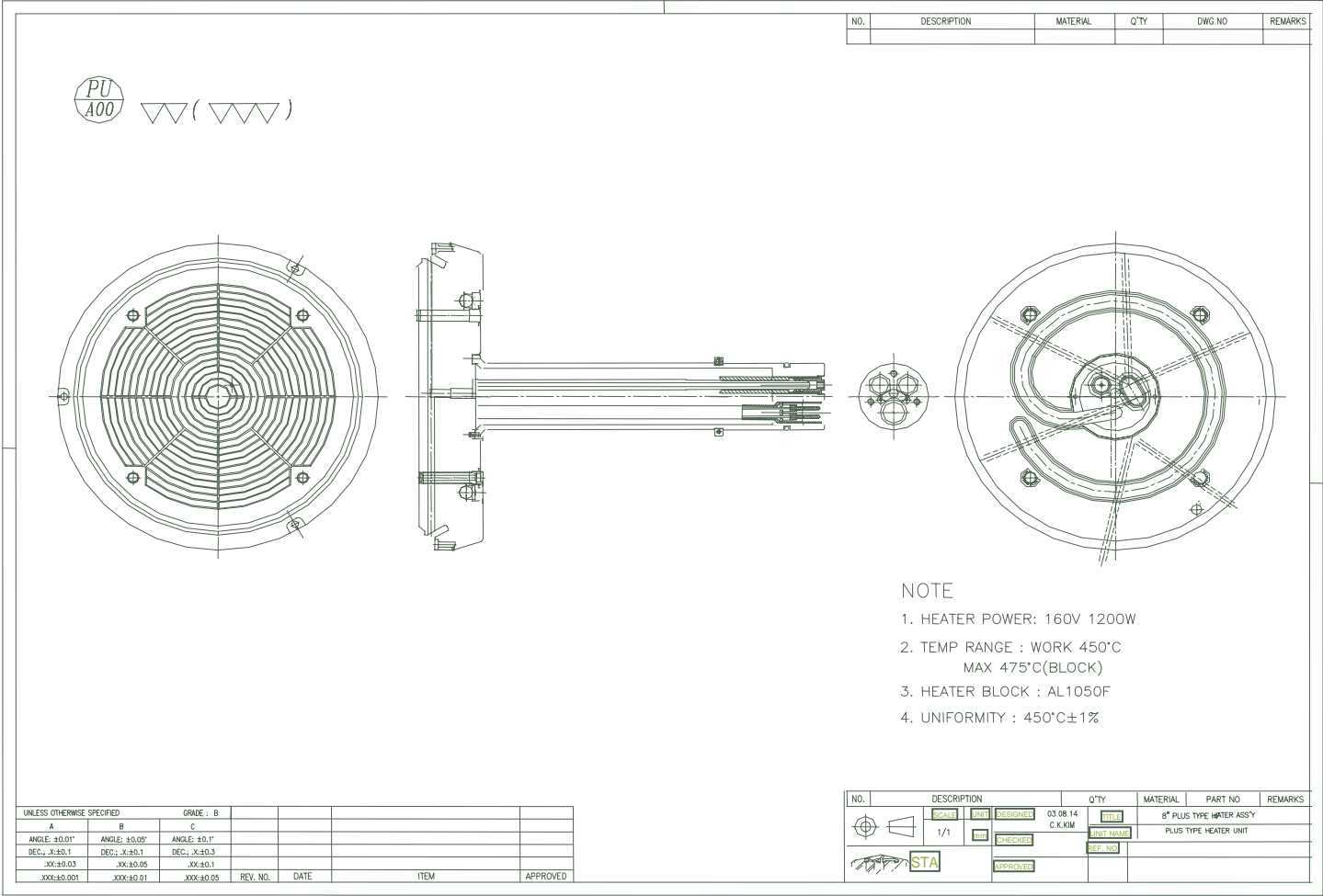
(Eugene, OR. USA)

Specifications

Product	PLUS
OEM part No	0010-04542
Equipment	P-5000
Maker	AMAT
Process	CVD-W deposition
Wafer	8-Inch
Warranty	6 Months
Connection	Connector-Type

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

Drawings



Final Inspection Sheet and Heating Test

Issue #	Final Inspection sheet			Rev. by	Approved by
Q-0830-04				Approval	
1. General Items					
Customer		SERIAL No.	PLUS08 - 408N005		
Product	PLUS Type CVDW HEATER BLOCK(Wxz)		Ship out	2004	
2. Specification					
Power	160V, 1200W				
Use Temp.	475				
3. INSPECTION RESULTS					
	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 ⁻⁹	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			
	4. Conclusion				
Date of Inspector	2004.08.30	Result	Pass / Fail		
Discussion		Inspector			
5. Remarks					

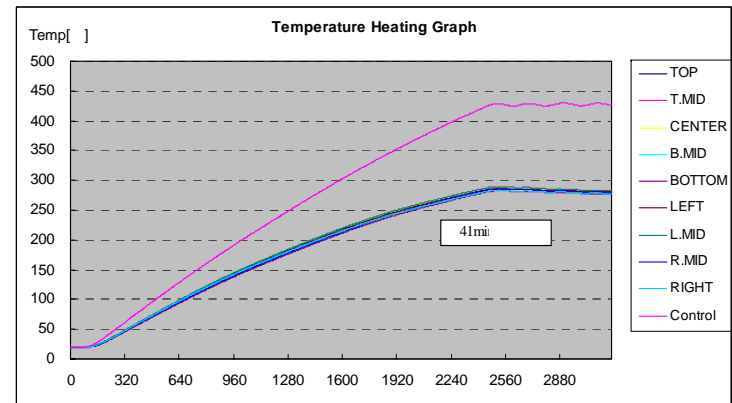
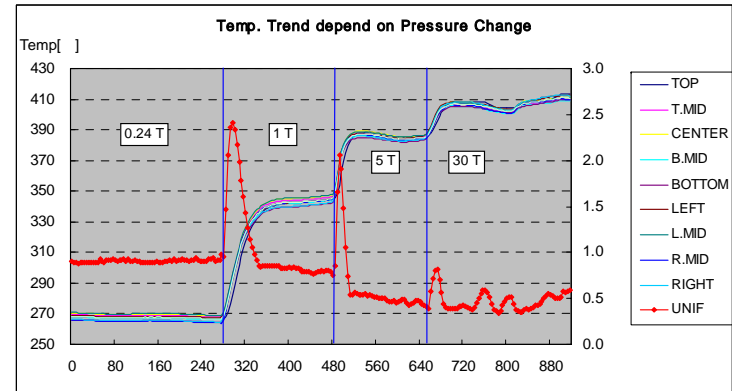
Heating Test results

Serial No. : PLUS08-403N006

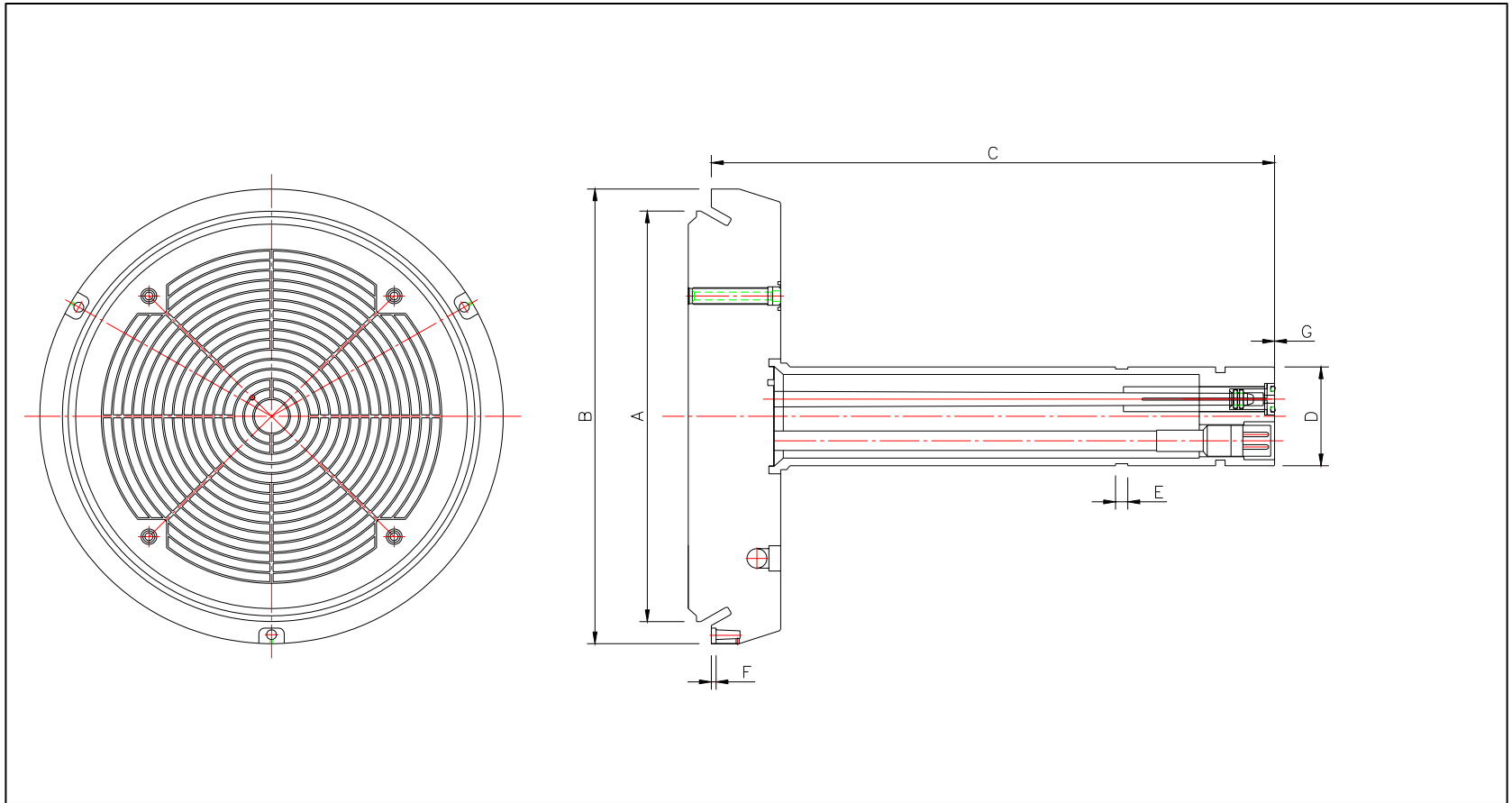
Setting Temp : 425

T/C Wafer : 9 points

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



QC Drawing



Figure

