

R-THETA INC.

ISO 9001 Registered Certificate# 001456

R-Tools Simulation – DESIGN OUTPUT SUMMARY

Date: 2004/3/29

Userid: mreeves
Simulation: new 280 H
Type: FABfin

1. HEATSINK DESIGN DETAILS – metric units

Heatsink PN	Weight % Fin	Fin Details					Baseplate			Material	
		Wt	#fins	t	H	cc	style	L	W		t
	kg	-	-	mm	mm	mm	-	mm	mm	mm	
MF152T9132S9G-SPXXX	4.1	54.4	132	1.25	33.0	3.43	serrated	152.0	457.0	10.0	Aluminum 6063-T5 Alur

2. THERMAL DESIGN OUTPUT DETAILS – metric units

Source	Device Details			Power	Temperature			Fin Efficiency	Thermal Resistances			
	PN	W	L		%sc	Ref#	Tsavg		Tcase	Tjunction	Rsa	Rcs
	mm	mm		W	°C	°C	°C	%	°C/W	°C/W	°C/W	
Custom	25	38	1.4	1	130.0	60.2	69.0	92.4	88.7	0.194	0.068	0.180
Custom	25	38	1.4	2	130.0	63.8	72.7	96.1	88.7	0.222	0.068	0.180
Custom	25	38	1.4	3	130.0	60.4	69.3	92.7	88.7	0.196	0.068	0.180
Custom	25	38	1.4	4	130.0	60.1	68.9	92.3	88.7	0.193	0.068	0.180
Custom	25	38	1.4	5	130.0	64.1	72.9	96.3	88.7	0.224	0.068	0.180
Custom	25	38	1.4	6	130.0	63.0	71.8	95.2	88.7	0.215	0.068	0.180
Custom	25	38	1.4	7	130.0	65.6	74.5	97.9	88.7	0.236	0.068	0.180
Custom	25	38	1.4	8	130.0	66.5	75.4	98.8	88.7	0.243	0.068	0.180
Custom	25	38	1.4	9	130.0	65.6	74.5	97.9	88.7	0.236	0.068	0.180
Custom	25	38	1.4	10	130.0	67.5	76.3	99.7	88.7	0.250	0.068	0.180
Custom	25	38	1.4	11	130.0	64.1	72.9	96.3	88.7	0.224	0.068	0.180
Custom	25	38	1.4	12	130.0	61.6	70.5	93.9	88.7	0.205	0.068	0.180
Custom	25	38	1.4	13	130.0	65.8	74.6	98.0	88.7	0.237	0.068	0.180
Custom	25	38	1.4	14	130.0	66.6	75.4	98.8	88.7	0.243	0.068	0.180
Custom	25	38	1.4	15	130.0	63.5	72.3	95.7	88.7	0.219	0.068	0.180
Custom	25	38	1.4	16	130.0	61.8	70.6	94.0	88.7	0.206	0.068	0.180
Custom	25	38	1.4	17	130.0	65.8	74.6	98.0	88.7	0.237	0.068	0.180
Custom	25	38	1.4	18	130.0	64.6	73.4	96.8	88.7	0.228	0.068	0.180

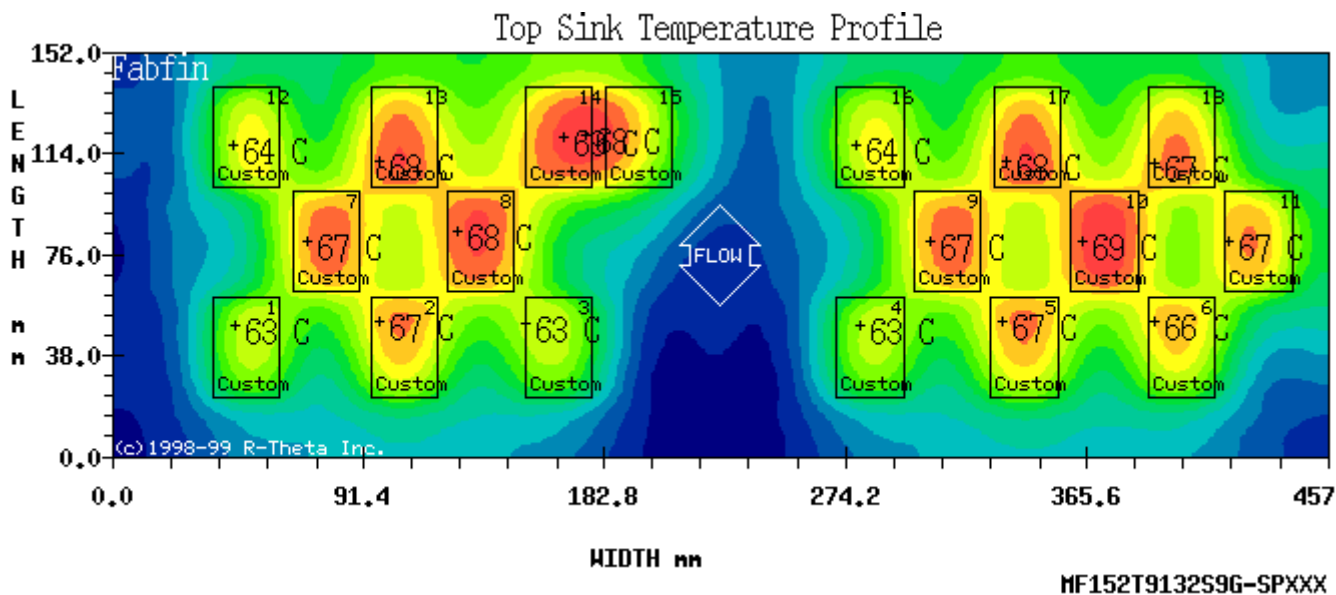
3. HYDRAULIC DESIGN OUTPUT DETAILS – metric units

Coolant Information

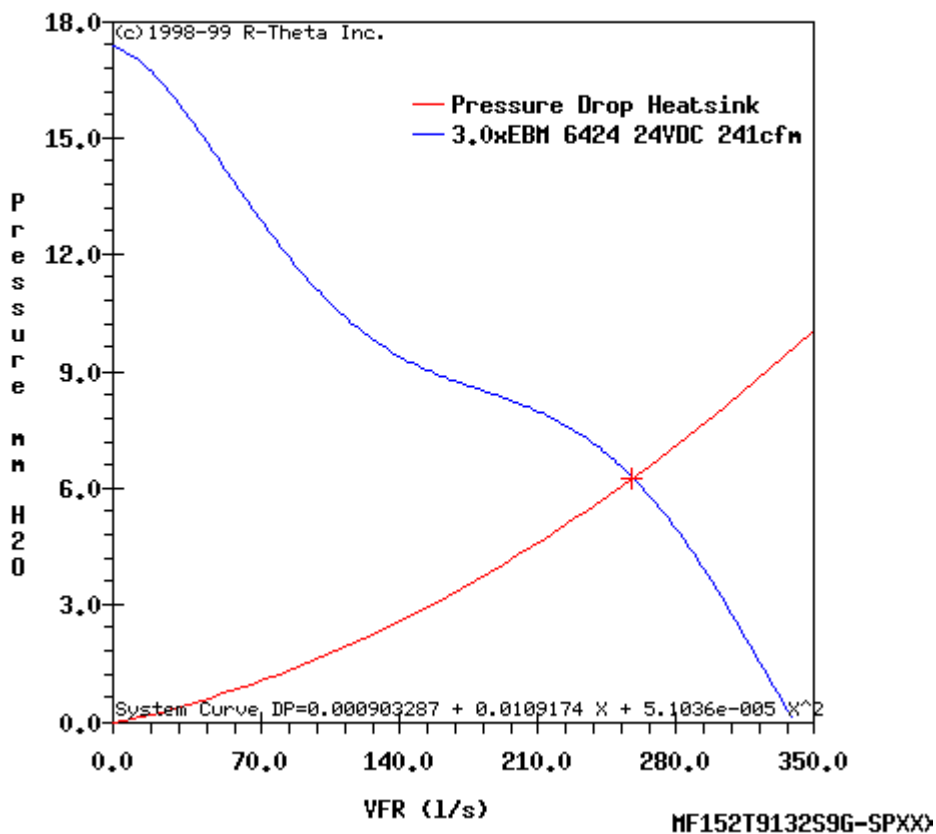
Pressure-drop

Reynolds

Type	Supply	#	Style	Flow Temp(°C)	Entrance	Core	Exit	Total	at Flow
				L/s In Out	mmH2O	mmH2O	mmH2O	mmH2O	
Air	EBM 6424 24VDC	241cfm	3.0 Impinge	130.0 35.0 42.9	0.934	2.686	2.664	6.284	3244



Head Loss vs Flow



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