



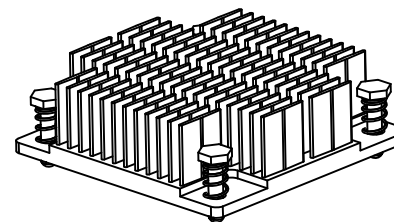
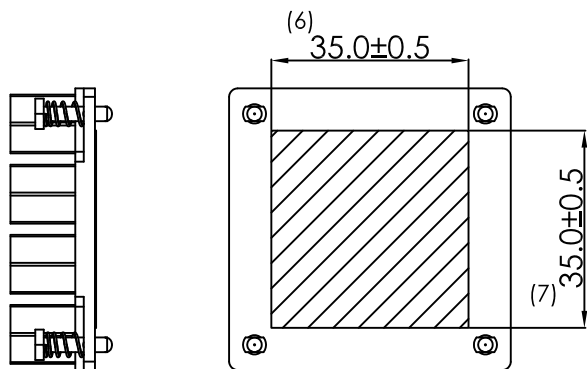
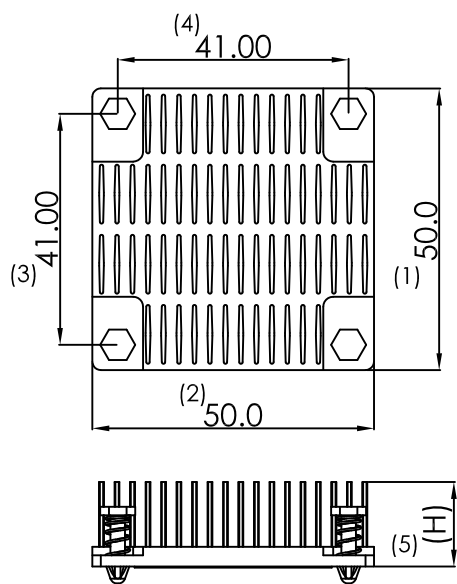
達鉅電子股份有限公司
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APPROVAL SHEET

BRAND	REGO
PART NUMBER	FP4H50004-xx35BA-100T-A+PCM
DESCRIPTION	HEAT SINK ASSEMBLY 50 x 50 x (8~40)mm
CUSTOMER	
CUSTOMER P/N	

AUTHORIZED SIGNATURES			
NAME			
DATE			



NOTES:

PART NAME / NUMBER	HEIGHT(H)	FORGED FIN	PCS	PUSH PINS	PCS	PHASE CHANGE THERMAL PAD	PCS
FP4H50004-0835BA-100T-A+PCM	8	FP4H50004-0835BA-1	1	1-1700010925	4	PCM4988 35x35x0.2	1
FP4H50004-1035BA-100T-A+PCM	10	FP4H50004-1035BA-1					
FP4H50004-1535BA-100T-A+PCM	15	FP4H50004-1535BA-1					
FP4H50004-2035BA-100T-A+PCM	20	FP4H50004-2035BA-1					
FP4H50004-2535BA-100T-A+PCM	25	FP4H50004-2535BA-1					
FP4H50004-3035BA-100T-A+PCM	30	FP4H50004-3035BA-1					
FP4H50004-3535BA-100T-A+PCM	35	FP4H50004-3535BA-1					
FP4H50004-4035BA-100T-A+PCM	40	FP4H50004-4035BA-1					

COMPRESSION REFERENCE

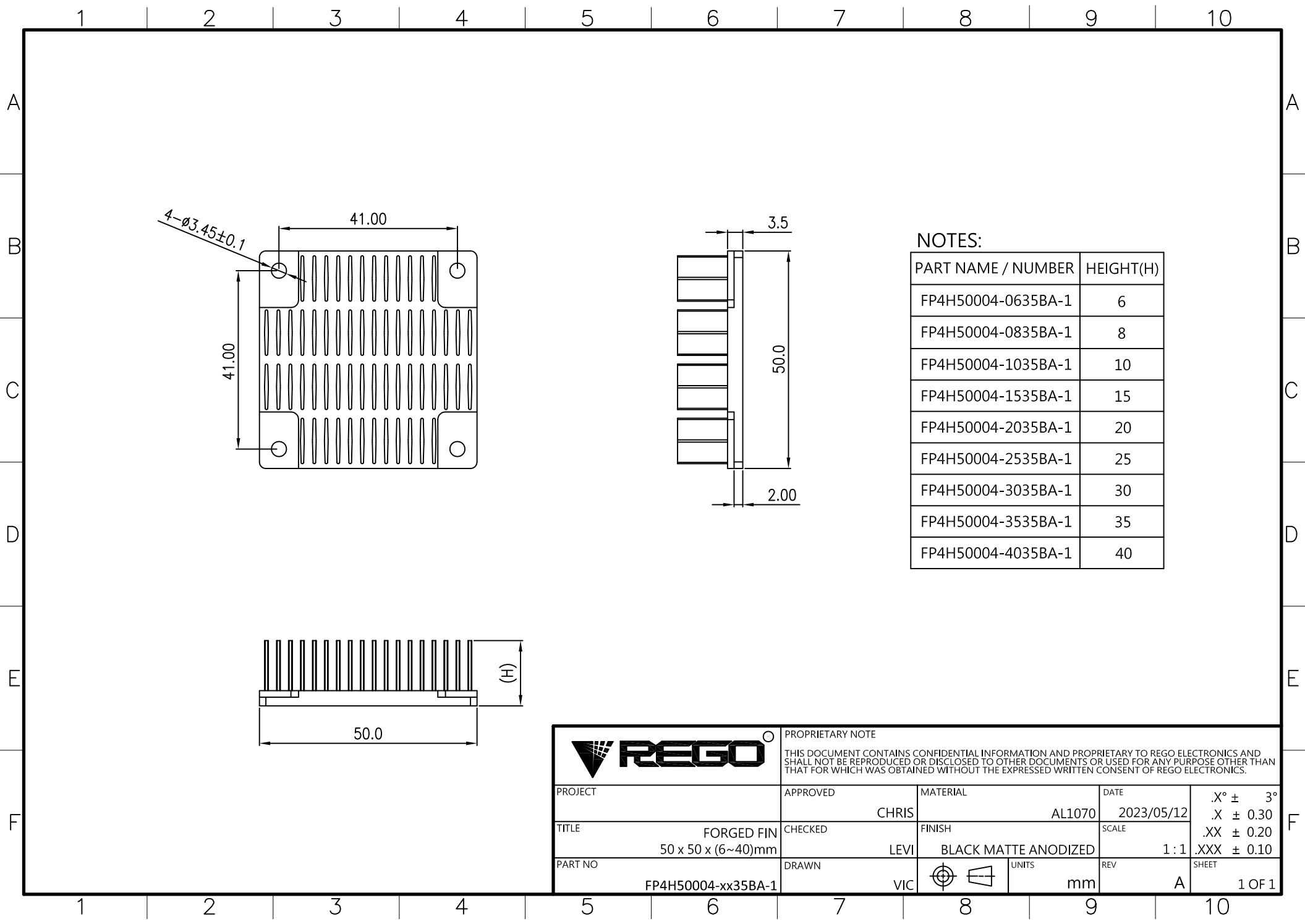
CONDITIONED	H+T = 2.9mm IC HEIGHT (H) PCB THICKNESS (T)	H+T = 3.4mm IC HEIGHT (H) PCB THICKNESS (T)	H+T = 3.9mm IC HEIGHT (H) PCB THICKNESS (T)	H+T ≥ 4.4mm IC HEIGHT (H) PCB THICKNESS (T)
APPLIED FORCE (3~5 lbs)	3.65 lbs	4.07 lbs	4.5 lbs	TO BE AVAILABLE AT ADDITIONAL CUSTOMIZATION



PROPRIETARY NOTE

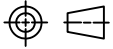
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PROJECT	APPROVED	MATERIAL	DATE	.X° ± 3°
	CHRIS	N/A	2023/05/12	.X ± 0.30
TITLE	CHECKED	FINISH	SCALE	.XX ± 0.20
	LEVI	N/A	1:1	.XXX ± 0.10
PART NO	DRAWN	UNITS	REV	SHEET
FP4H50004-xx35BA-100T-A+PCM	VIC	mm	A	1 OF 1



NOTES:

PART NAME / NUMBER	HEIGHT(H)
FP4H50004-0635BA-1	6
FP4H50004-0835BA-1	8
FP4H50004-1035BA-1	10
FP4H50004-1535BA-1	15
FP4H50004-2035BA-1	20
FP4H50004-2535BA-1	25
FP4H50004-3035BA-1	30
FP4H50004-3535BA-1	35
FP4H50004-4035BA-1	40

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PROJECT	APPROVED	MATERIAL	DATE	.X° ± 3°
	CHRIS	AL1070	2023/05/12	.X ± 0.30
TITLE	CHECKED	FINISH	SCALE	.XX ± 0.20
FORGED FIN	LEVI	BLACK MATTE ANODIZED	1 : 1	.XXX ± 0.10
50 x 50 x (6~40)mm				
PART NO	DRAWN		UNITS	SHEET
FP4H50004-xx35BA-1	VIC	mm	A	1 OF 1

1 2 3 4 5 6 7 8 9 10

A

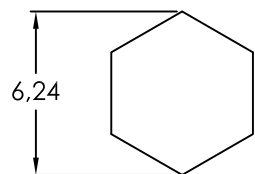
B

C

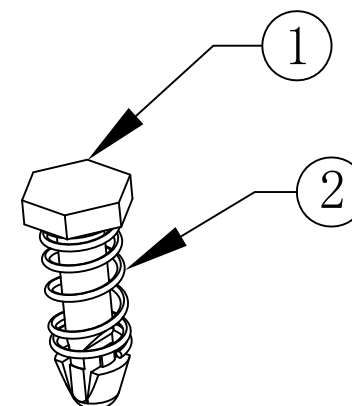
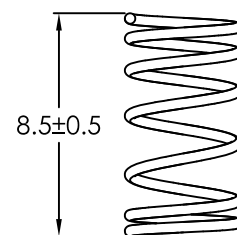
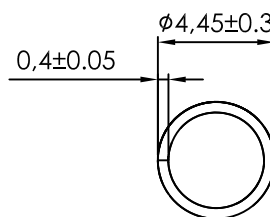
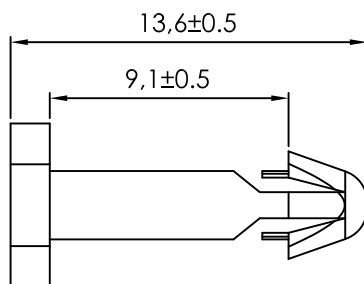
D

E

F



HOLE IN PCB $\varnothing 3.1 \pm 0.05$



A

B

C

D

E

F

ITEM	DESCRIPTION	MATERIAL	FINISH
1	BODY	NYLON 66	BLACK
2	SPRING	PIANO WIRE	NICKEL

ITEM	NUMERICAL VALUE	
SPRING DIAMETER	D=	4.05 mm
WIRE DIAMETER	d=	0.4 mm
TOTAL COIL Q'TY	Na=	6
FREE LENGTH	L0=	8.5 mm
SPRING COEFFICIENT	K=	96.34 g/mm



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PROJECT	APPROVED	MATERIAL	DATE	.X° ± 3°
	CHRIS	SEE NOTE	2020/10/20	.X ± 0.30
TITLE	CHECKED	FINISH	SCALE	.XX ± 0.20
PUSH PIN	LEVI	SEE NOTE	1 : 1	.XXX ± 0.10
PART NO	DRAWN	UNITS	REV	SHEET
1-1700010925	VIC	mm	A	1 OF 1

1 2 3 4 5 6 7 8 9 10

PCM4988

High Thermal Conductivity Phase Change Material

Honeywell's PCM4988, a highly thermally conductive Phase Change Material (PCM) in pad format, was designed to minimize thermal resistance at interfaces. Based on a novel polymer PCM system, this material exhibits excellent wetting at interfaces during typical operating temperature range, resulting in very low surface contact resistance.

A proprietary filler material provides high thermal conductivity (2.0–5.0 W/m°C) and a low thermal impedance ($<0.20^{\circ}\text{C cm}^2/\text{W}$), suitable for high performance IC devices.

PCM4988 in Convenient Pad Format



*Stencil printable material is available as PCM4988-SP

Honeywell TIMs Serve Multiple Applications



Automotive & Power



IT/Enterprise



Telecommunications



Consumer Electronics



FEATURES & BENEFITS

- High performance filler and polymer technology
- Phase change at 45°C
- Highly conductive filler loading to optimize performance
- Superior handling and reworkability
- Superior reliable thermal performance
- Excellent thermal capability to fit different needs

PCM4988 Technical Information

Physical Properties	Unit	Test Method	PCM4988
Thermal Conductivity	W/m·K	ASTM D5470	2.0
Thermal Impedance @ no shim (Typical Value)	°C -cm ² /W	ASTM D5470 Modified	0.14
Specific Gravity		ASTM D374	2.2
Viscosity (Typical Value)	Pa·s @2 1/s, 25°C	RehometerHON	NA
Volume Resistivity	Ω·cm	ASTM D257-700	8.2x10 ¹⁴
Thickness Range	mm		0.20-1.00

STORAGE CONDITION

Refer to product label.

THERMAL IMPEDANCE POST RELIABILITY

(No shim @ 40psi)

End of Line 0.14 °C-cm²/W

Temperature Cycle "B" 0.10 °C-cm²/W

(-55°C to +125°C , 1000 cycles)

Product Use

Clamping pressure and temperature are suggested to achieve a minimum bond line thickness of the thermal interface material, typically less than 1.5 mil (0.038mm) for best thermal performance.

More Honeywell TIMs

PCM4988 is part of Honeywell's TIM Solutions family of phase change materials. Whatever the thermal challenge, we offer a TIM product that provides just the right characteristics for your application. Find out more about:

PTM7000 Series

PTM6000 Series

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Hybrid Series

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