



達鉅電子股份有限公司  
REGO ELECTRONICS INC.

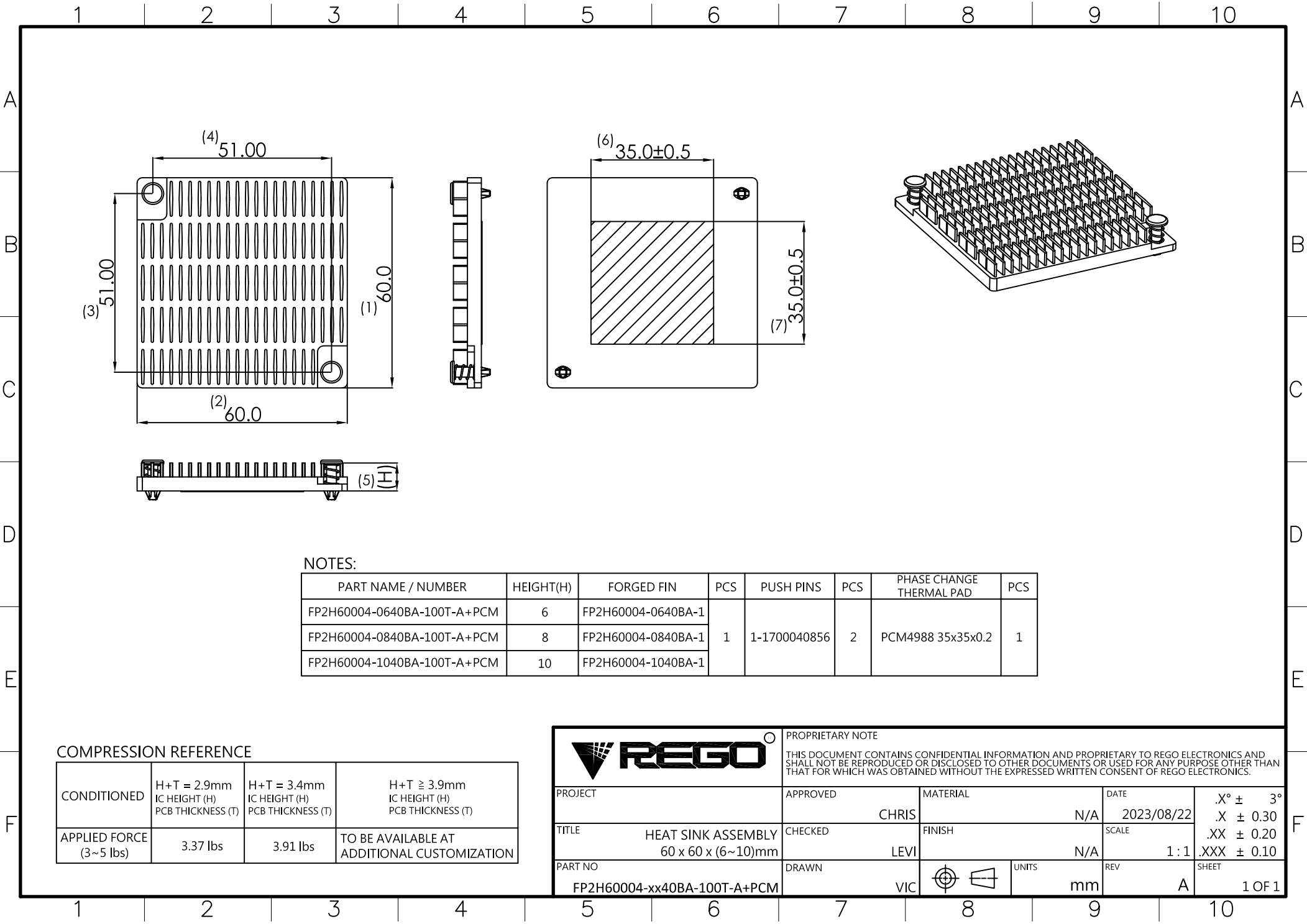
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## APPROVAL SHEET

BRAND	REGO
PART NUMBER	FP2H60004-xx40BA-100T-A+PCM
DESCRIPTION	HEAT SINK ASSEMBLY 60 x 60 x (6~10)mm
CUSTOMER	
CUSTOMER P/N	

### AUTHORIZED SIGNATURES

NAME			
DATE			



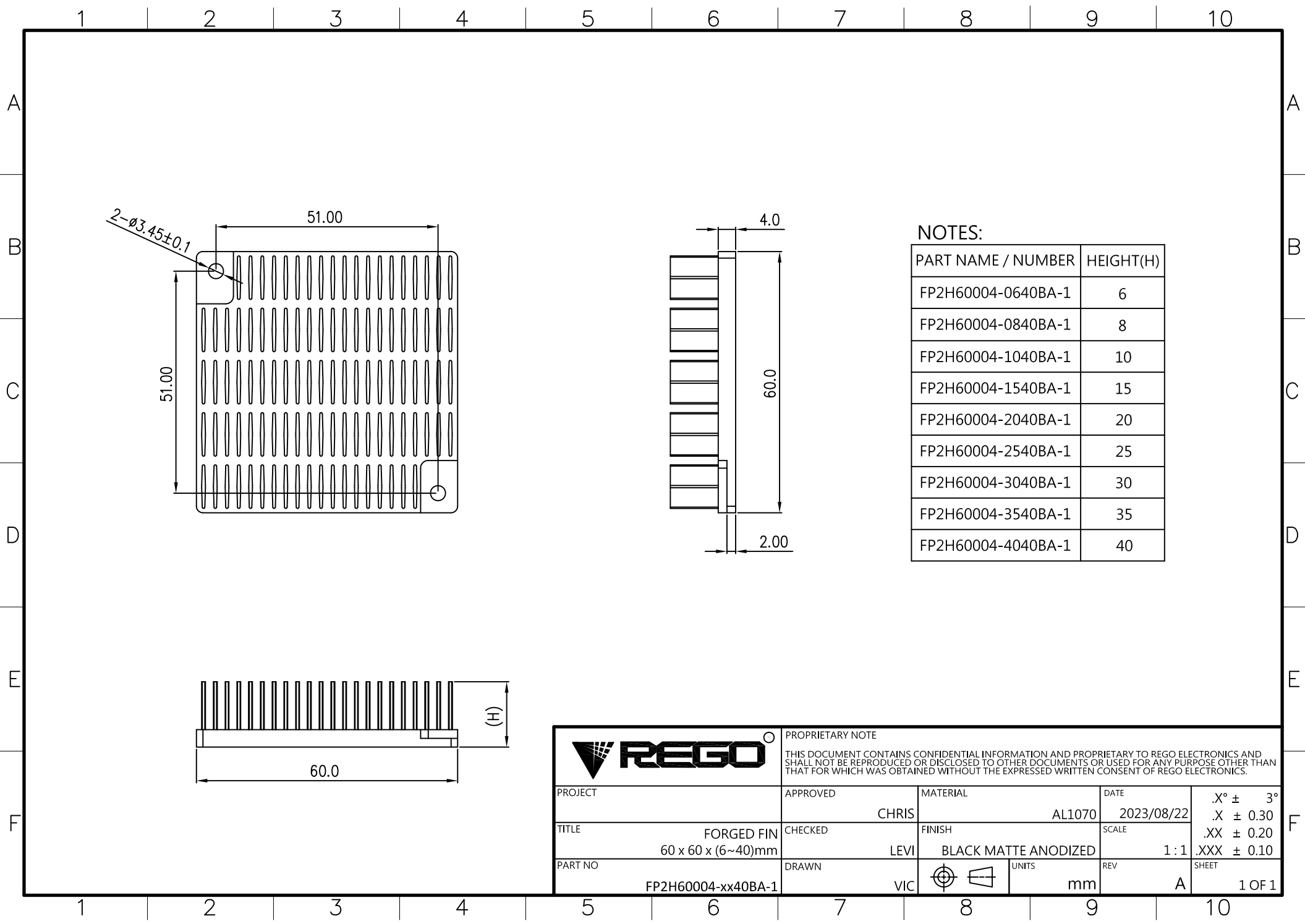
NOTES:

PART NAME / NUMBER	HEIGHT(H)	FORGED FIN	PCS	PUSH PINS	PCS	PHASE CHANGE THERMAL PAD	PCS
FP2H60004-0640BA-100T-A+PCM	6	FP2H60004-0640BA-1	1	1-1700040856	2	PCM4988 35x35x0.2	1
FP2H60004-0840BA-100T-A+PCM	8	FP2H60004-0840BA-1					
FP2H60004-1040BA-100T-A+PCM	10	FP2H60004-1040BA-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)
APPLIED FORCE (3~5 lbs)	3.37 lbs	3.91 lbs	TO BE AVAILABLE AT ADDITIONAL CUSTOMIZATION

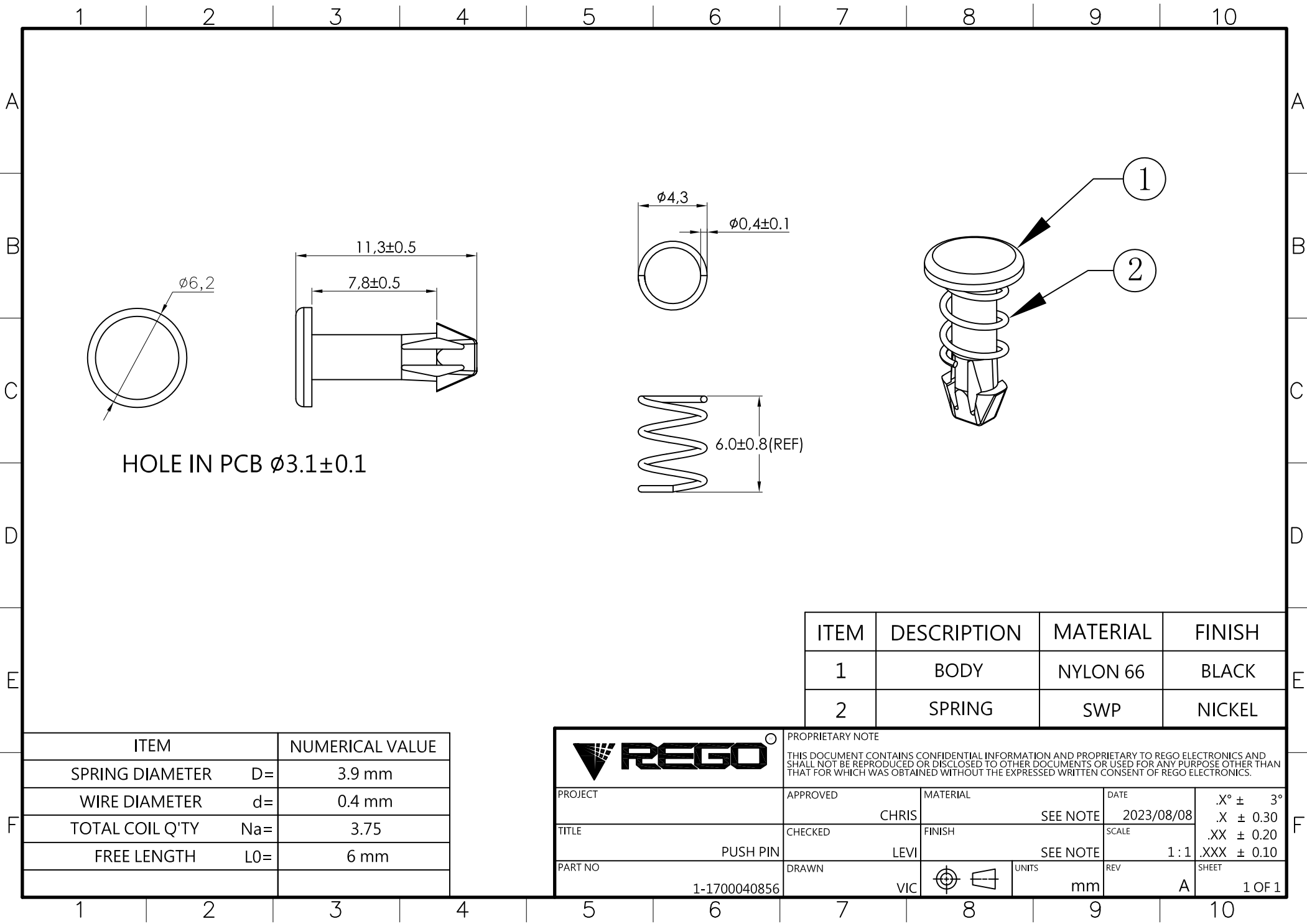
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PROJECT	APPROVED	MATERIAL	DATE	.X° ± 3° .X ± 0.30 .XX ± 0.20 .XXX ± 0.10	
TITLE	CHECKED	FINISH	SCALE		
PART NO	DRAWN	UNITS	REV	SHEET	
FP2H60004-xx40BA-100T-A+PCM	VIC	mm	A	1 OF 1	



NOTES:

PART NAME / NUMBER	HEIGHT(H)
FP2H60004-0640BA-1	6
FP2H60004-0840BA-1	8
FP2H60004-1040BA-1	10
FP2H60004-1540BA-1	15
FP2H60004-2040BA-1	20
FP2H60004-2540BA-1	25
FP2H60004-3040BA-1	30
FP2H60004-3540BA-1	35
FP2H60004-4040BA-1	40

		PROPRIETARY NOTE			
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PROJECT	APPROVED	MATERIAL	DATE	.X° ± 3° .X ± 0.30 .XX ± 0.20 .XXX ± 0.10	
	CHRIS	AL1070	2023/08/22		
TITLE	CHECKED	FINISH	SCALE	1:1	
FORGED FIN 60 x 60 x (6~40)mm	LEVI	BLACK MATTE ANODIZED			
PART NO	DRAWN	UNITS	REV	SHEET	
FP2H60004-xx40BA-1	VIC	mm	A	1 OF 1	



## 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  $45^{\circ}\text{C}$
- 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 <sup>2</sup> /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 <sup>14</sup>
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-cm<sup>2</sup>/W

Temperature Cycle "B" 0.10 °C-cm<sup>2</sup>/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  
PTM5000 Series PCM45F Series  
Hybrid Series LTM Series By

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DS.0318Rev3  
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