



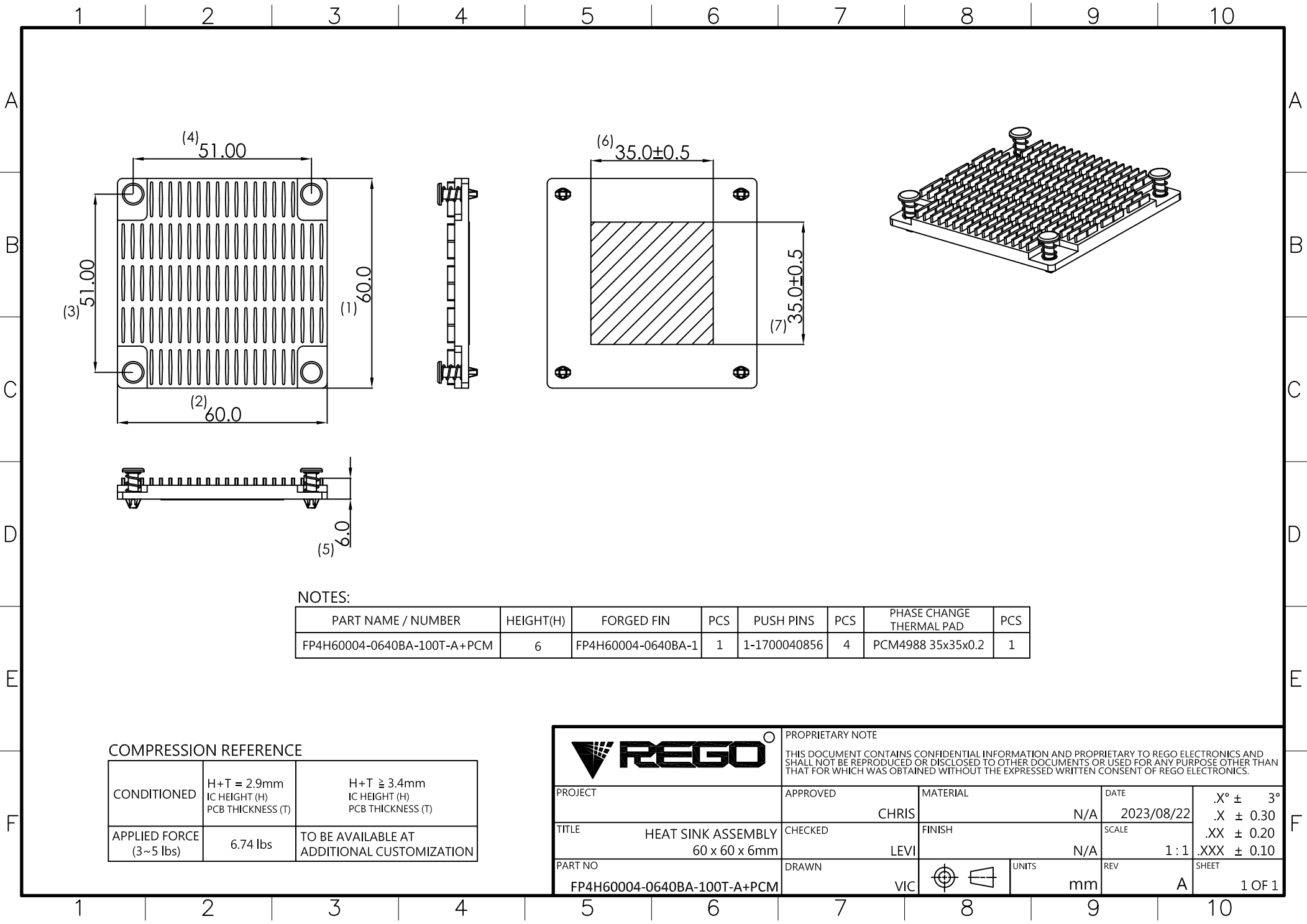
達鉅電子股份有限公司
REGO ELECTRONICS INC.

8F., No. 431, Baozhang Rd., Xizhi Dist., New Taipei City 221036, Taiwan
TEL: 886-2-2643-6558 FAX: 886-2-2643-6118 www.regothermal.com

APPROVAL SHEET

BRAND	REGO
PART NUMBER	FP4H60004-0640BA-100T-A+PCM
DESCRIPTION	HEAT SINK ASSEMBLY 60 x 60 x 6 mm
CUSTOMER	
CUSTOMER P/N	

AUTHORIZED SIGNATURES			
NAME			
DATE			



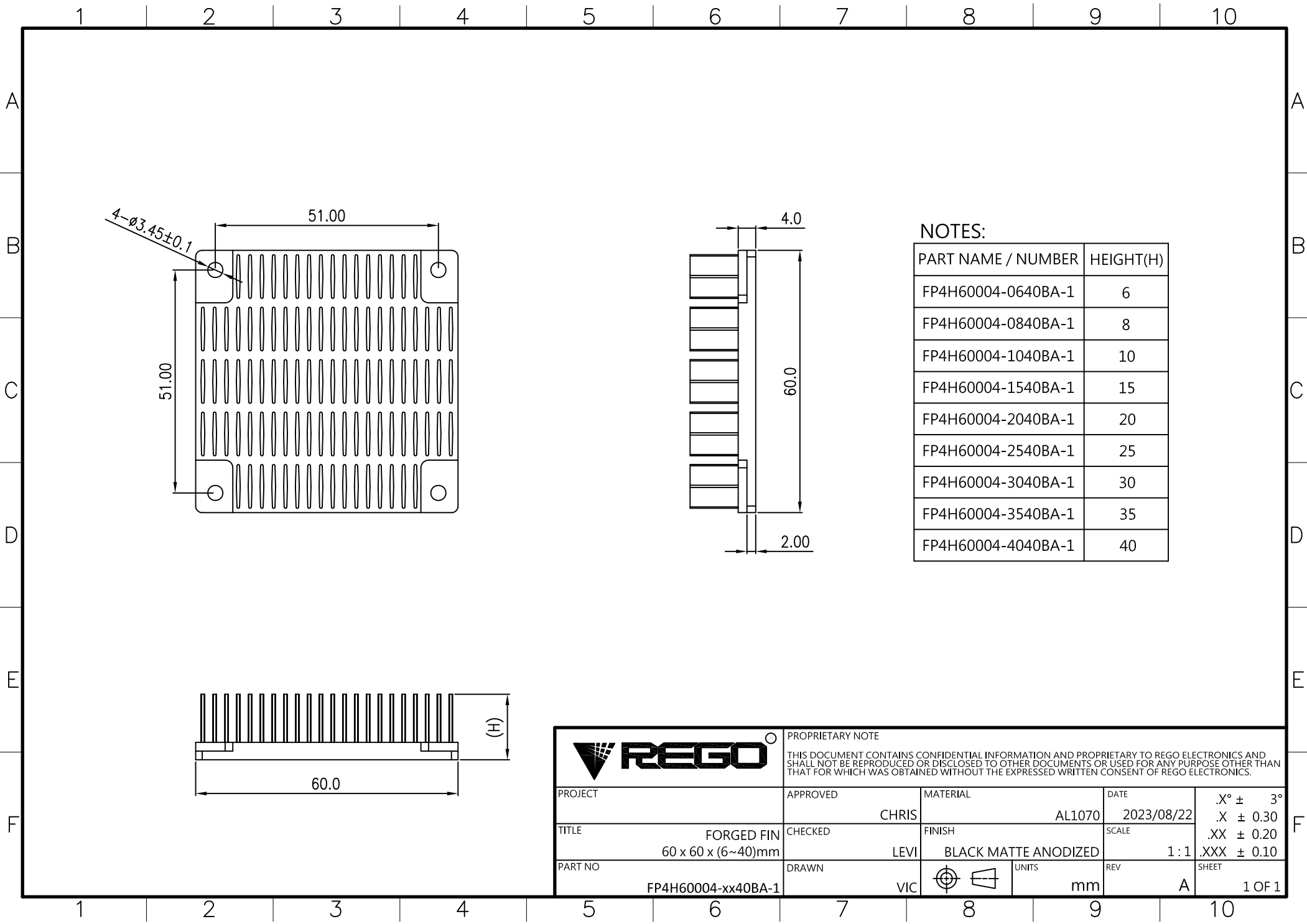
NOTES:

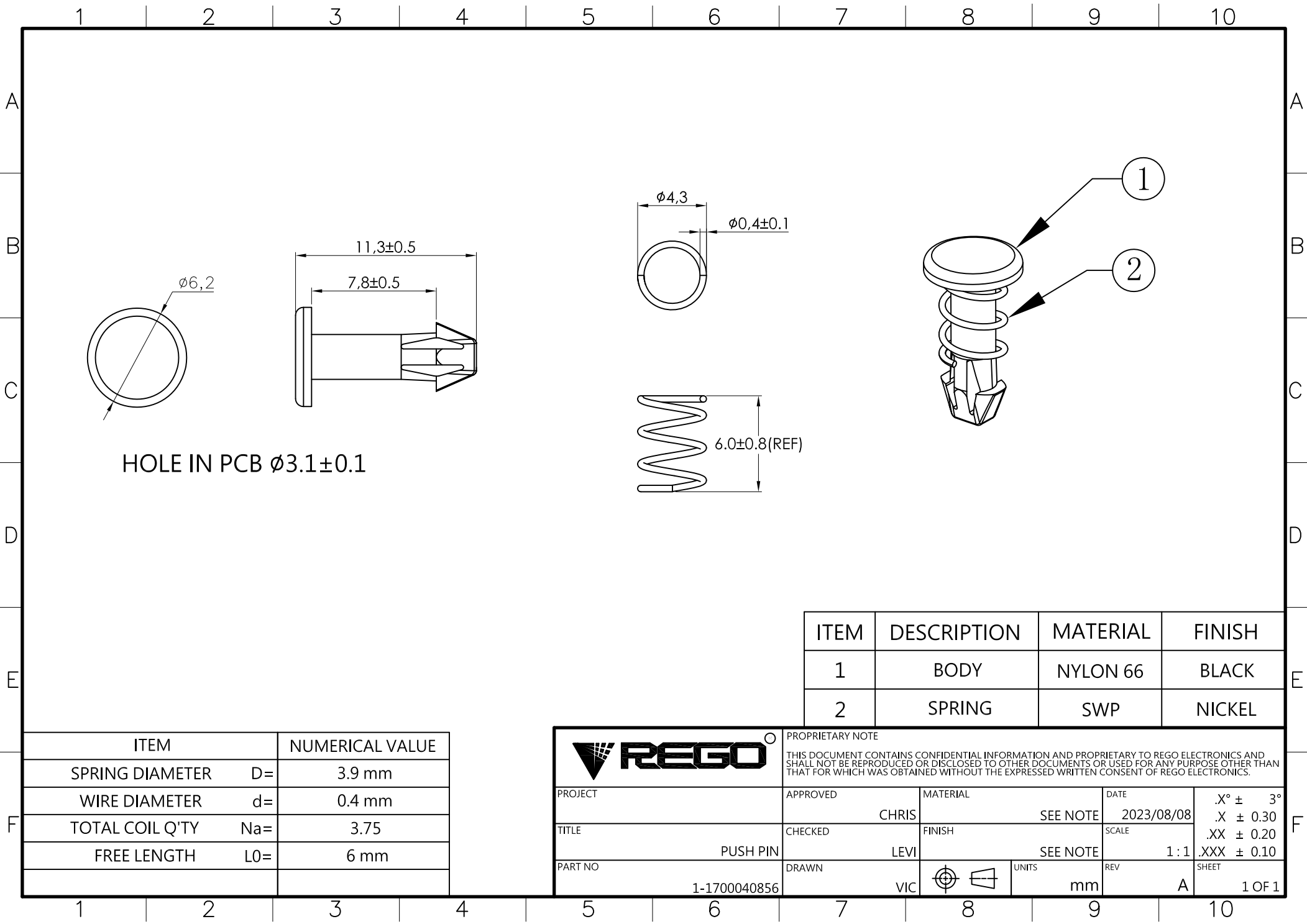
PART NAME / NUMBER	HEIGHT(H)	FORGED FIN	PCS	PUSH PINS	PCS	PHASE CHANGE THERMAL PAD	PCS
FP4H60004-0640BA-100T-A+PCM	6	FP4H60004-0640BA-1	1	1-1700040856	4	PCM4988 35x35x0.2	1

COMPRESSION REFERENCE

CONDITIONED	H+T = 2.9mm IC HEIGHT (H) PCB THICKNESS (T)	H+T ≥ 3.4mm IC HEIGHT (H) PCB THICKNESS (T)
APPLIED FORCE (3~5 lbs)	6.74 lbs	TO BE AVAILABLE AT ADDITIONAL CUSTOMIZATION

		PROPRIETARY NOTE THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION AND PROPRIETARY TO REGO ELECTRONICS AND SHALL NOT BE REPRODUCED OR DISCLOSED TO OTHER DOCUMENTS OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH WAS OBTAINED WITHOUT THE EXPRESSED WRITTEN CONSENT OF REGO ELECTRONICS.				
PROJECT	APPROVED	MATERIAL		DATE	.X° ± 3°	
TITLE HEAT SINK ASSEMBLY 60 x 60 x 6mm	CHECKED	FINISH		SCALE	.XX ± 0.20	
	LEVI	N/A		1:1	.XXX ± 0.10	
PART NO	DRAWN		UNITS	REV	SHEET	
FP4H60004-0640BA-100T-A+PCM	VIC		mm	A	1 OF 1	





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

ITEM	NUMERICAL VALUE
SPRING DIAMETER D=	3.9 mm
WIRE DIAMETER d=	0.4 mm
TOTAL COIL Q'TY Na=	3.75
FREE LENGTH L0=	6 mm

		PROPRIETARY NOTE THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION AND PROPRIETARY TO REGO ELECTRONICS AND SHALL NOT BE REPRODUCED OR DISCLOSED TO OTHER DOCUMENTS OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH WAS OBTAINED WITHOUT THE EXPRESSED WRITTEN CONSENT OF REGO ELECTRONICS.			
PROJECT	APPROVED	MATERIAL	DATE	.X° ± 3° .X ± 0.30 .XX ± 0.20 .XXX ± 0.10	
	CHRIS	SEE NOTE	2023/08/08		
TITLE	CHECKED	FINISH	SCALE	1 : 1	
PUSH PIN	LEVI	SEE NOTE			
PART NO	DRAWN	UNITS	REV	SHEET	
1-1700040856	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°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
PTM5000 Series PCM45F Series
Hybrid Series LTM Series By

visiting: electronicmaterials.com



RESPONSIBLE CARE
OUR COMMITMENT TO SUSTAINABILITY

Honeywell Electronic Materials

USA: 1-509-252-2102

China: 400-840-2233

Germany: 49-5137-999-9199

Japan: 81-3-6730-7092

Korea: 82-2-3483-5076

Singapore: 65-6580-3593

Taiwan: 886-3-6580300 ext.312

www.electronicmaterials.com

Although all statements and information contained herein are believed to be accurate and reliable, they are presented without guarantee or warranty of any kind, express or implied. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments, and the user assumes all risks and liability for use of the information and results obtained. Statements or suggestions concerning the use of materials and processes are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that all toxicity data and safety measures are indicated herein or that other measures may not be required.

DS.0318Rev3
©2018 Honeywell International Inc.

Honeywell

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Heat Sinks](#) category:

Click to view products by [Rego Electronics](#) manufacturer:

Other Similar products are found below :

[630-35ABT3](#) [656-15ABPE](#) [657-20ABPNE](#) [73452PPBA](#) [231-69PAB-15V](#) [253-122ABE-22](#) [PSC22CB](#) [BDN183CBA01](#) [32438](#) [LAE66A3CB](#)
[73381PPBA](#) [73403PPBA](#) [7G0047C](#) [8191-E40](#) [D10650-40T5](#) [ATS-54310K-C2-R0](#) [657-20ABPESC](#) [2341BG](#) [679-25AG](#) [6801G](#) [680-5K](#)
[SK145 37 5STSTO220](#) [TS-11042-CY](#) [7717-133DAP](#) [7717-26DAP](#) [SK104 50 8STS](#) [SK129 25 4STS](#) [APF30-30-10CB/A01](#) [43808-04](#)
[BDN123CBA01](#) [512-9M](#) [BDN113CBA01](#) [ATS-PF1K-C1-R0](#) [40139](#) [392-180AG](#) [1963872-1](#) [MTN-264-27](#) [V7477Y](#) [143-L](#) [30270](#)
[1960052651N021](#) [FK 212 MI-CB](#) [FK 219 CB 3 MI](#) [FK 250 06 LF PAK](#) [FK 250 08 LF PAK](#) [FK 264 MI 220 O](#) [FK 265 MI 220 O](#) [FK 272 MI](#)
[247 V](#) [FK 278 MI 247 H](#) [FK 280 MI 247 H](#)