

UBM\_S Series  
UBH\_S Series  
UB\_S Series

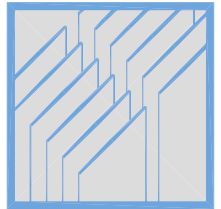
Low Pressure Drop and  
Low Thermal Resistance Heat Sink  
with Attachment Holes

**ALPHA**

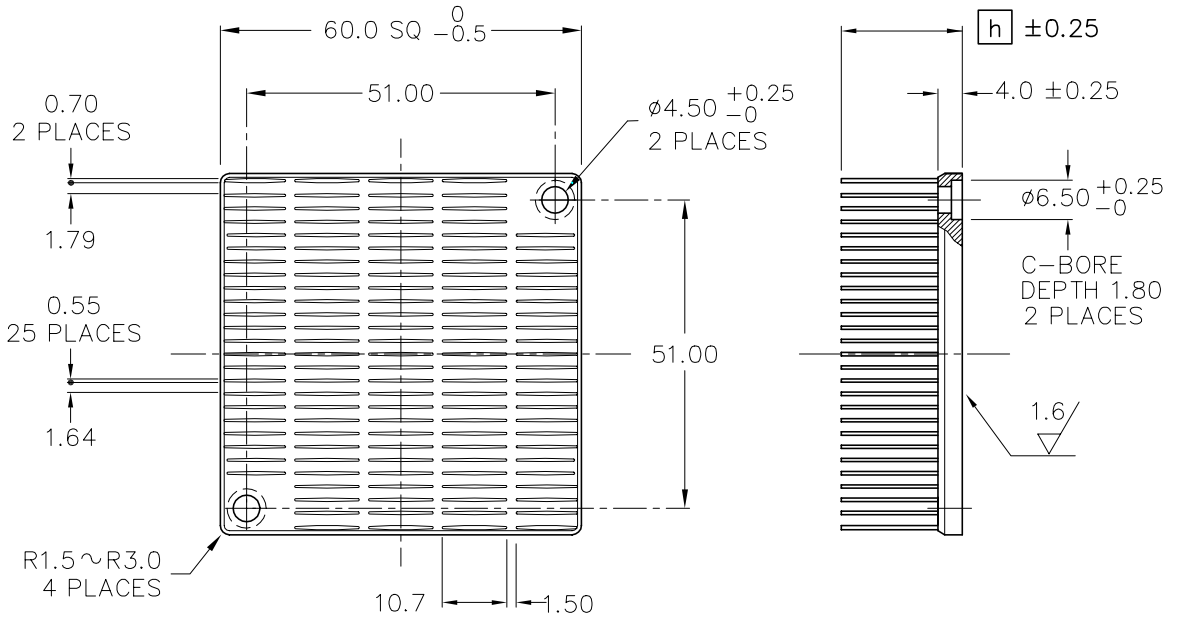
# ALPHA

Low Pressure Drop and  
Low Thermal Resistance Heat Sink  
with attachment holes

# UBM60S



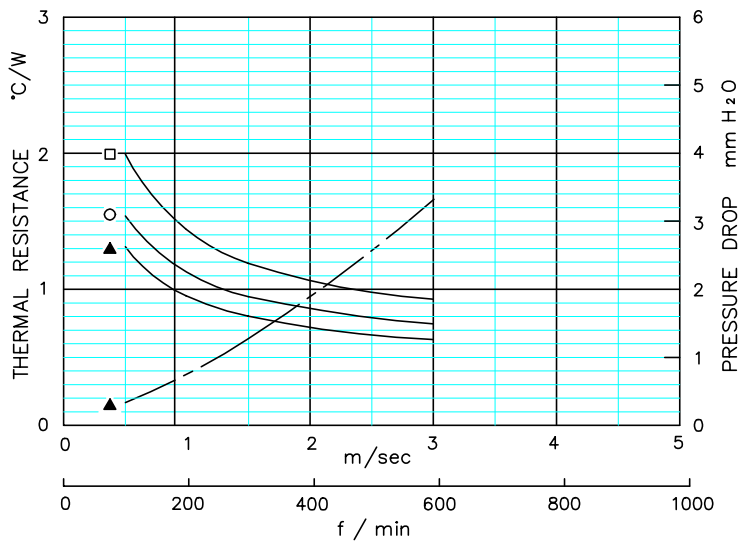
DIM



MODEL	HEIGHT [h]	WEIGHT (grams)
UBM60S-15B	15	56.8
UBM60S-20B	20	64.8
UBM60S-25B	25	72.8

MATERIAL : A 6063  
FINISH : BLACK ANODIZE  
DIMENSIONS : mm

DATA



□ UBM60S-15B  
○ UBM60S-20B  
▲ UBM60S-25B

● DUCTED CONDITION  
DUMMY HEATER SIZE: 12.7 SQ  
THERMAL RESISTANCE \_\_\_\_\_  
PRESURE DROP - - - - -

AIR VELOCITY: DUCTED CONDITION

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE. REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

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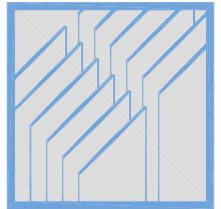
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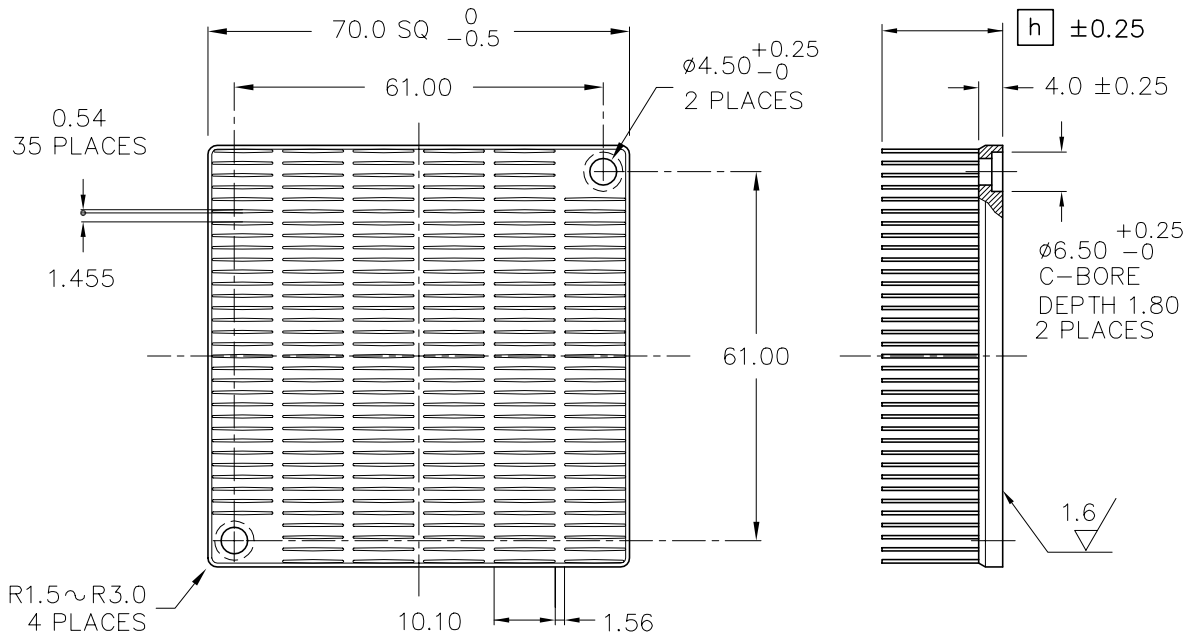
# ALPHA

Low Pressure Drop and  
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with attachment holes

# UBM70S



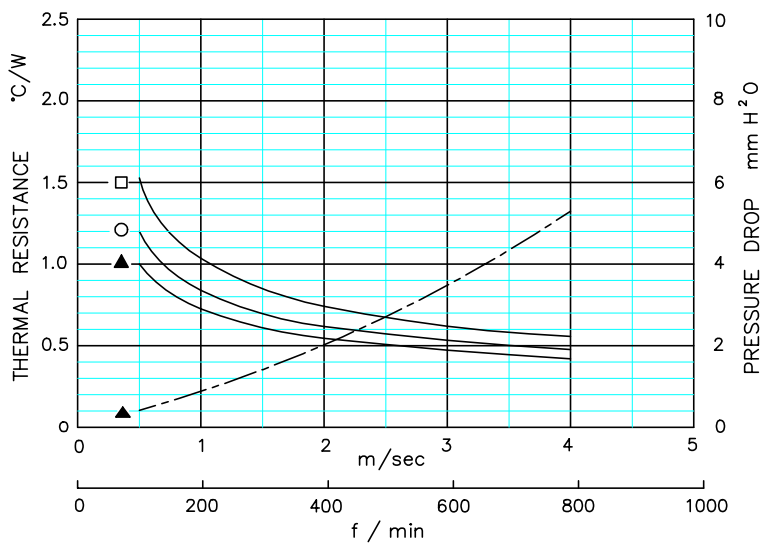
DIM



MODEL	HEIGHT $h$	WEIGHT (grams)
UBM70S-15B	15	97.0
UBM70S-20B	20	108.7
UBM70S-25B	25	120.4

MATERIAL : A 6063  
FINISH : BLACK ANODIZE  
DIMENSIONS : mm

DATA



□ UBM70S-15B  
○ UBM70S-20B  
▲ UBM70S-25B

● DUCTED CONDITION  
DUMMY HEATER SIZE: 12.7 SQ  
THERMAL RESISTANCE ———  
PRESSURE DROP - - - - -

AIR VELOCITY: DUCTED CONDITION

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE. REFER TO TECHNICAL INFORMATION.

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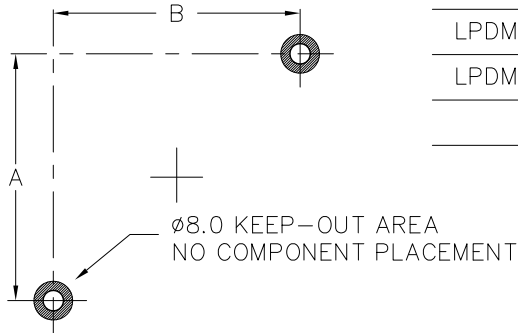
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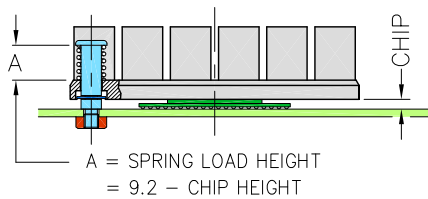
● BOARD KEEPOUT PATTERNS



LPDM60S AND UBM60S	51.0	51.0
LPDM70S AND UBM70S	61.0	61.0
MODEL	A	B

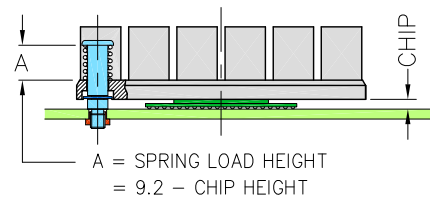
● INSTALLATION

USE HEX NUTS M3x0.5



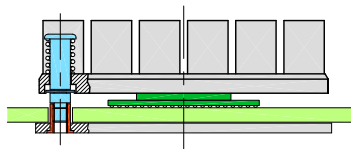
REQUIRES ø3.30 THRU HOLES IN BOARD.  
RECOMMENDED P.C.B THICKNESS 1.6mm.  
MINIMUM CHIP HEIGHT 1.5mm.

USE *MAC8* TH-1.6-XX-M3



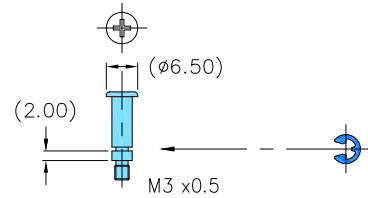
REQUIRES ø3.70 THRU HOLES IN BOARD.  
MAC8 THREAD INSERT NEED THE SOLDERING.  
RECOMMENDED P.C.B THICKNESS  
MINIMUM 1.6mm ~ MAXIMUM 3.7mm  
MINIMUM CHIP HEIGHT 1.5mm.

USE CUSTOM BACKING-PLATE



CUSTOM DESIGN FOR ANY PCB THICKNESS.

SHOULDER-SCREW/RETAINING RING E-2.5

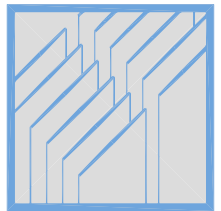


REFER TO THE DRAWING FOR DETAIL SPECIFICATION.

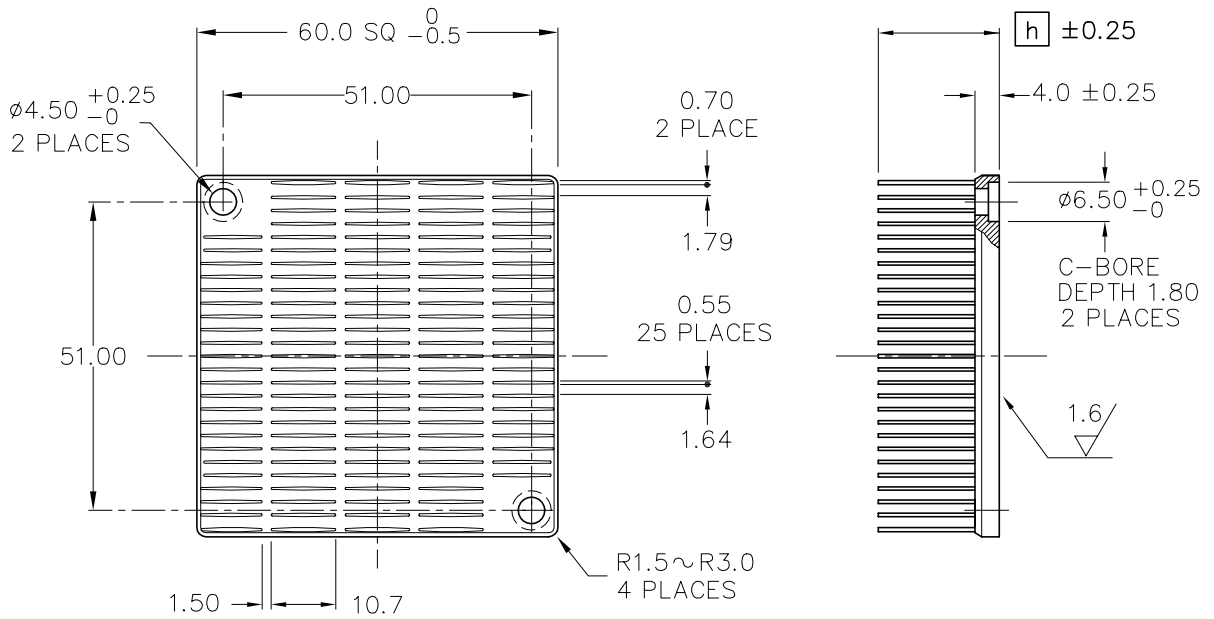
# ALPHA

Low Pressure Drop and  
Low Thermal Resistance Heat Sink  
with attachment holes

# UBH60S



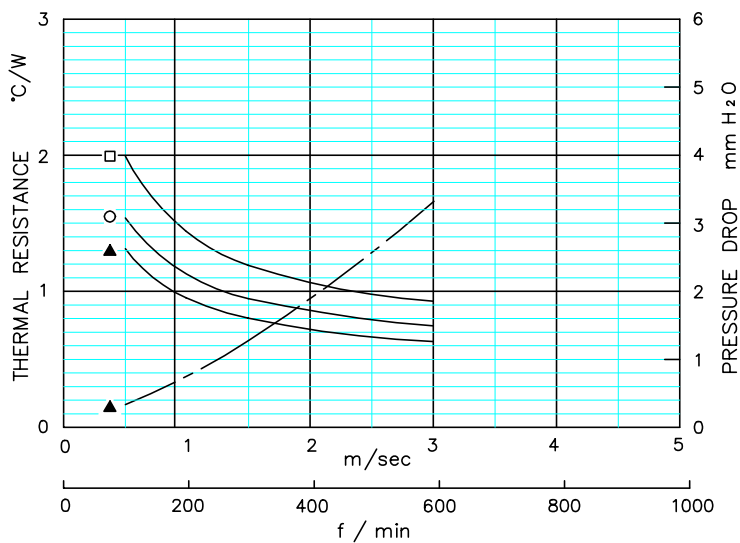
DIM



MODEL	HEIGHT $h$	WEIGHT (grams)
UBH60S-15B	15	56.8
UBH60S-20B	20	64.8
UBH60S-25B	25	72.8

MATERIAL : A 6063  
FINISH : BLACK ANODIZE  
DIMENSIONS : mm

DATA



□ UBH60S-15B  
 ○ UBH60S-20B  
 ▲ UBH60S-25B  
 ● DUCTED CONDITION  
 DUMMY HEATER SIZE: 12.7 SQ  
 THERMAL RESISTANCE \_\_\_\_\_  
 PRESSURE DROP - - - - -

AIR VELOCITY: DUCTED CONDITION

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.  
 REFER TO TECHNICAL INFORMATION.

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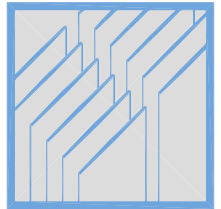
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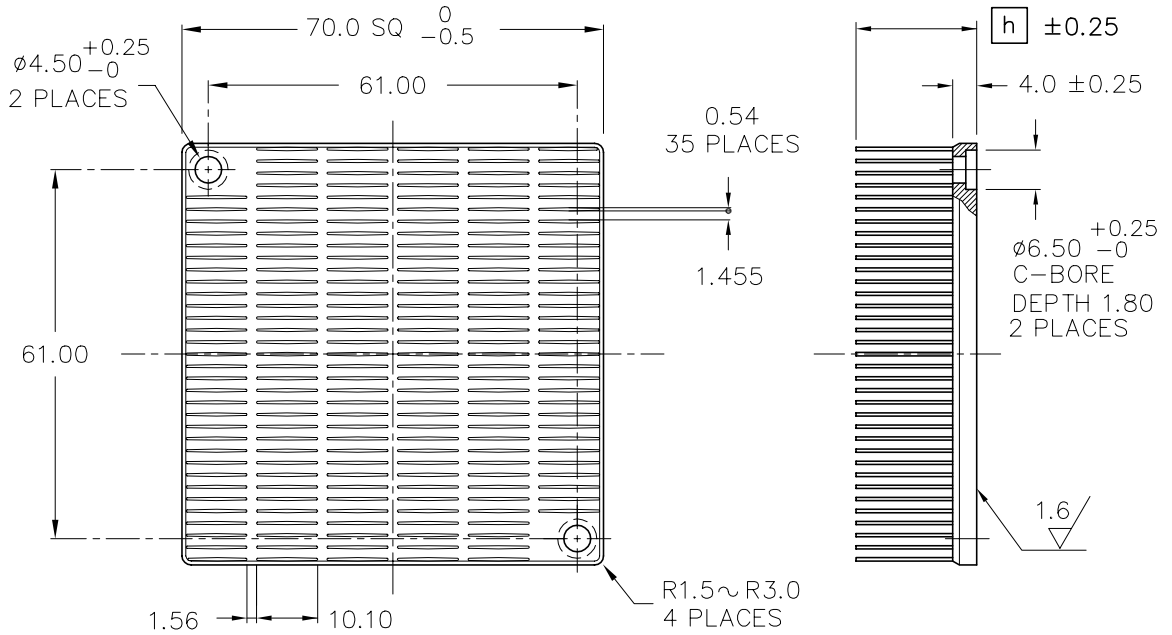
# ALPHA

Low Pressure Drop and  
Low Thermal Resistance Heat Sink  
with attachment holes

# UBH70S



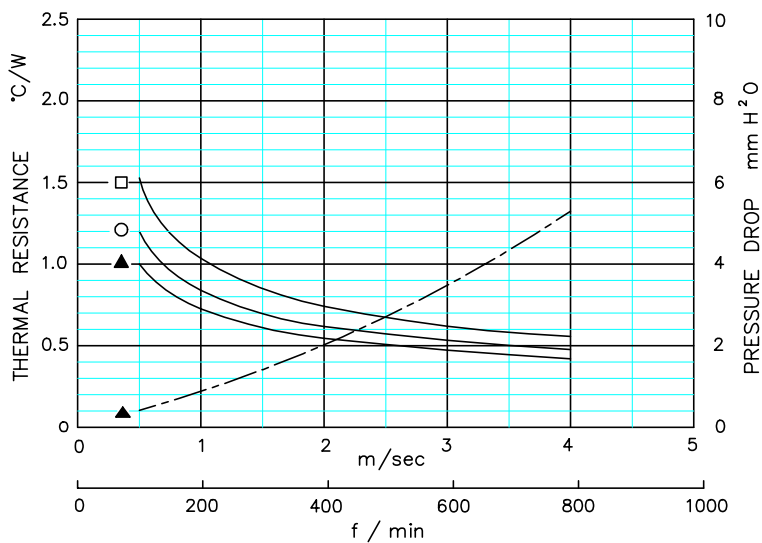
DIM



MODEL	HEIGHT [h]	WEIGHT (grams)
UBH70S-15B	15	97.0
UBH70S-20B	20	108.7
UBH70S-25B	25	120.4

MATERIAL : A 6063  
FINISH : BLACK ANODIZE  
DIMENSIONS : mm

DATA



□ UBH70S-15B  
 ○ UBH70S-20B  
 ▲ UBH70S-25B

● DUCTED CONDITION  
 DUMMY HEATER SIZE: 12.7 SQ  
 THERMAL RESISTANCE ———  
 PRESSURE DROP - - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.  
 REFER TO TECHNICAL INFORMATION.

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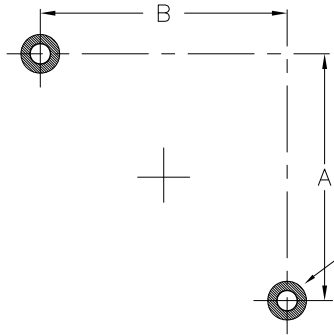
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REF



● BOARD KEEPOUT PATTERNS

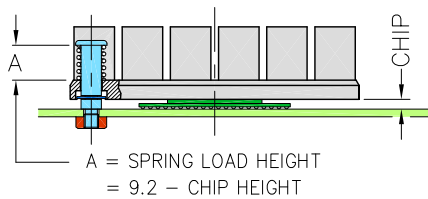


LPDH60S AND UBH60S	51.0	51.0
LPDH70S AND UBH70S	61.0	61.0
MODEL	A	B

ø8.0 KEEP-OUT AREA  
NO COMPONENT PLACEMENT

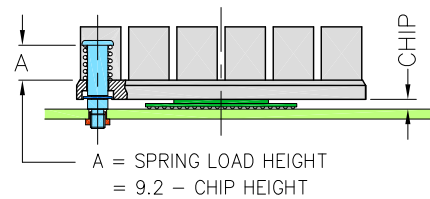
● INSTALLATION

USE HEX NUTS M3x0.5



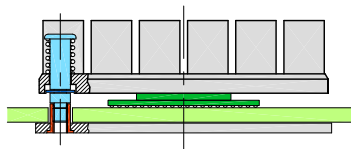
REQUIRES ø3.30 THRU HOLES IN BOARD.  
RECOMMENDED P.C.B THICKNESS 1.6mm.  
MINIMUM CHIP HEIGHT 1.5mm.

USE *MAC8* TH-1.6-XX-M3



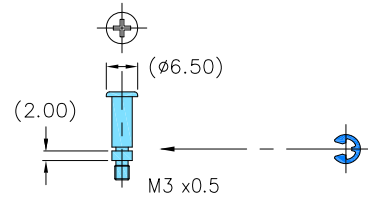
REQUIRES ø3.70 THRU HOLES IN BOARD.  
MAC8 THREAD INSERT NEED THE SOLDERING.  
RECOMMENDED P.C.B THICKNESS  
MINIMUM 1.6mm ~ MAXIMUM 3.7mm  
MINIMUM CHIP HEIGHT 1.5mm.

USE CUSTOM BACKING-PLATE



CUSTOM DESIGN FOR ANY PCB THICKNESS.

SHOULDER-SCREW/RETAINING RING E-2.5

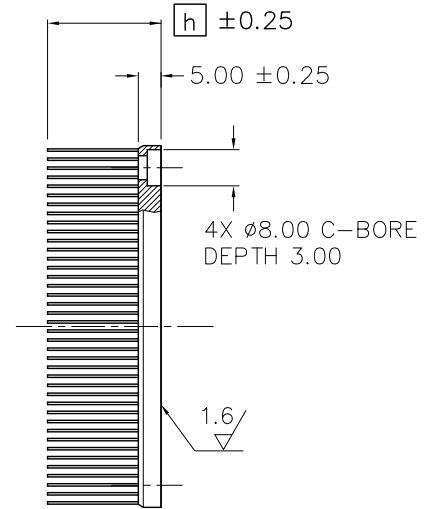
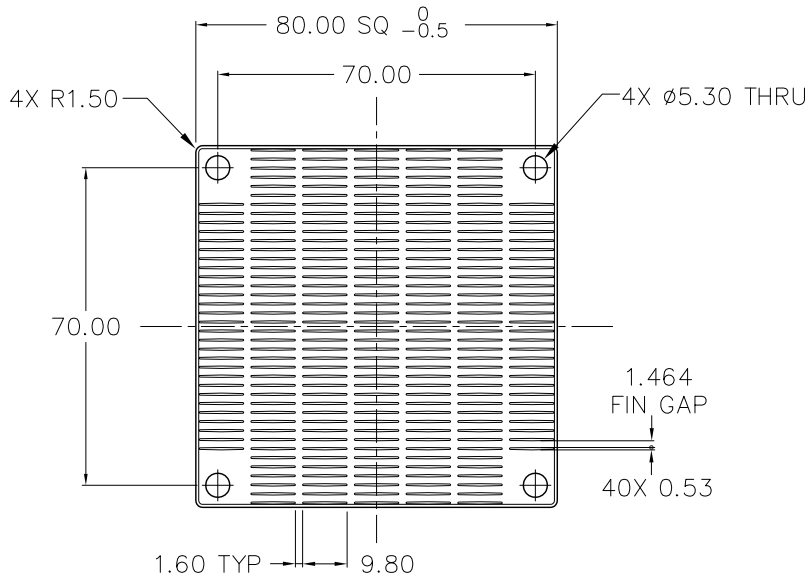
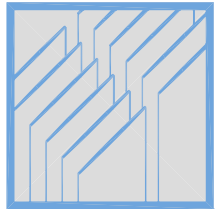


REFER TO THE DRAWING FOR DETAIL SPECIFICATION.

# ALPHA

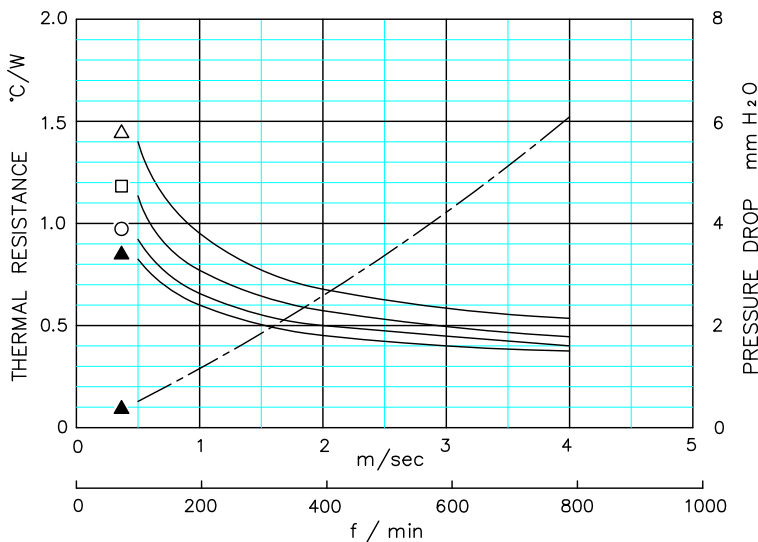
Low Pressure Drop and  
Low Thermal Resistance Heat Sink  
with attachment holes

# UB80S



MODEL	HEIGHT [h]	WEIGHT (grams)
UB80S-15B	15	114.6
UB80S-20B	20	130.3
UB80S-25B	25	146.1
UB80S-30B	30	164.8

MATERIAL : A 6063  
FINISH : BLACK ANODIZE  
DIMENSIONS : mm



△ UB80S-15B  
□ UB80S-20B  
○ UB80S-25B  
▲ UB80S-30B

● DUCTED CONDITION  
DUMMY HEATER SIZE: 12.7 SQ  
THERMAL RESISTANCE ———  
PRESURE DROP - - - - -

AIR VELOCITY: DUCTED CONDITION

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE. REFER TO TECHNICAL INFORMATION.

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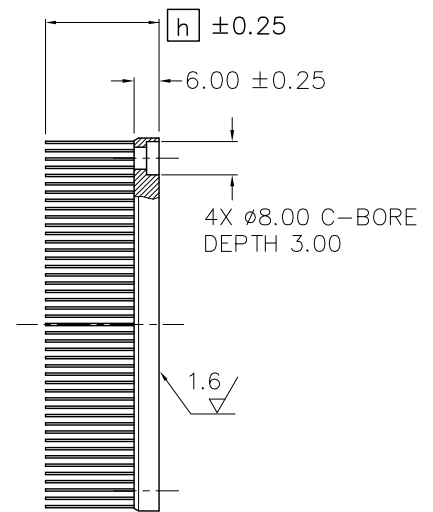
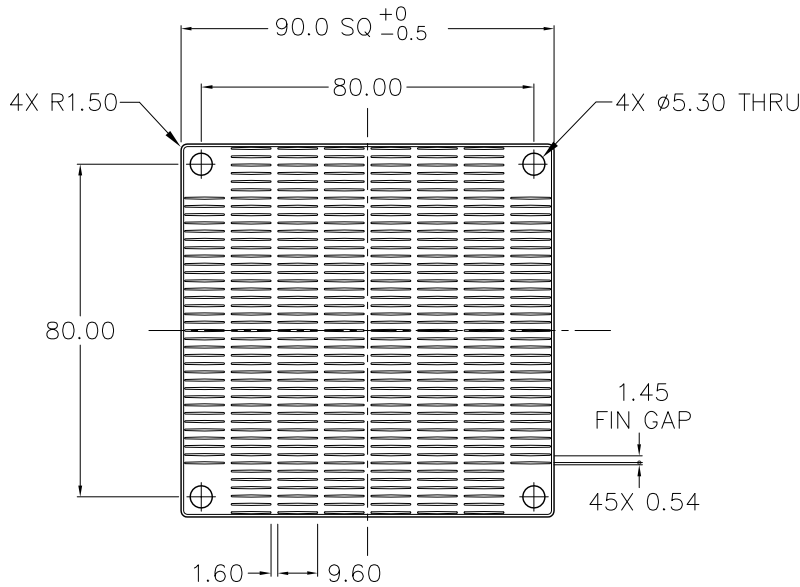
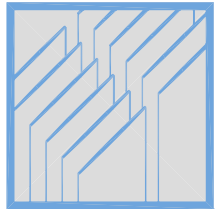
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# ALPHA

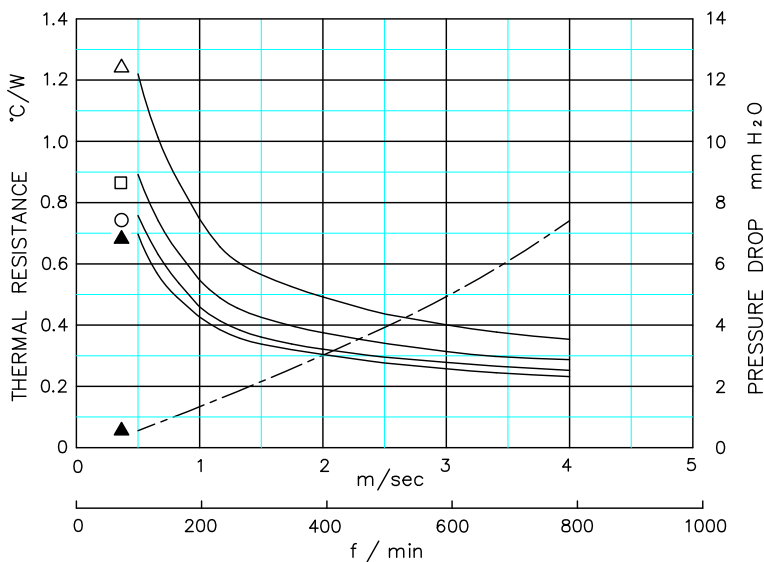
Low Pressure Drop and  
Low Thermal Resistance Heat Sink  
with attachment holes

# UB90S



MODEL	HEIGHT [h]	WEIGHT (grams)
UB90S-15B	15	164.2
UB90S-20B	20	184.7
UB90S-25B	25	205.2
UB90S-30B	30	225.7

MATERIAL : A 6063  
FINISH : BLACK ANODIZE  
DIMENSIONS : mm



- △ UB90S-15B
- UB90S-20B
- UB90S-25B
- ▲ UB90S-30B

● DUCTED CONDITION  
DUMMY HEATER SIZE: 25 SQ  
THERMAL RESISTANCE ———  
PRESSURE DROP - - - - -

AIR VELOCITY: DUCTED CONDITION

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE. REFER TO TECHNICAL INFORMATION.

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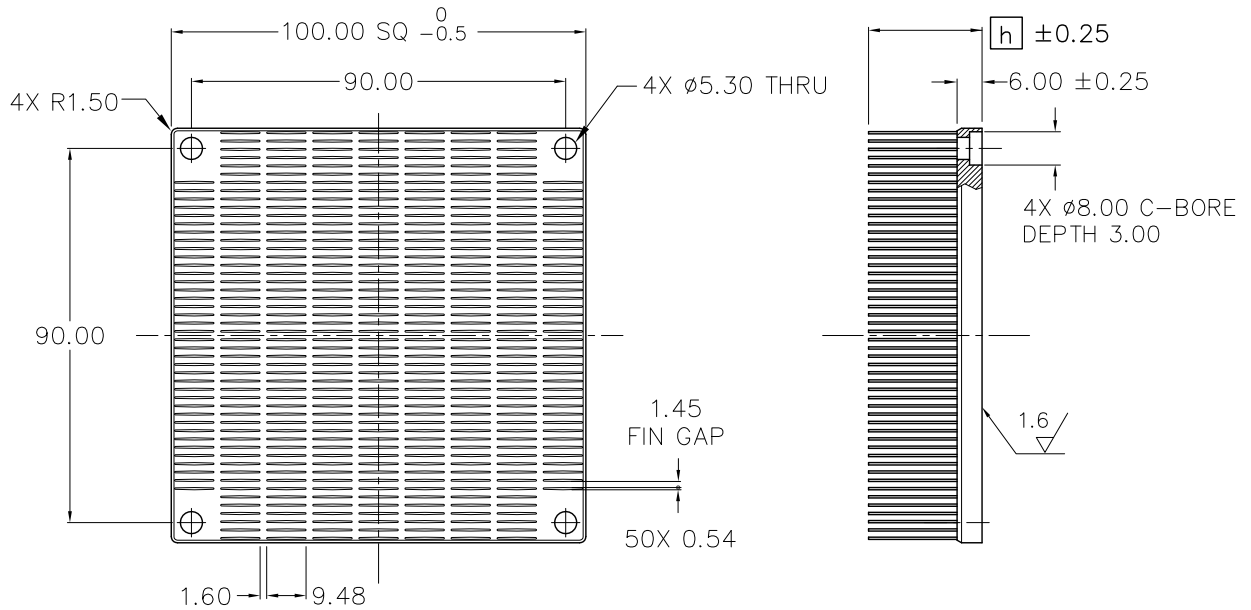
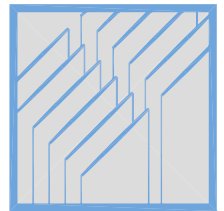
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# ALPHA

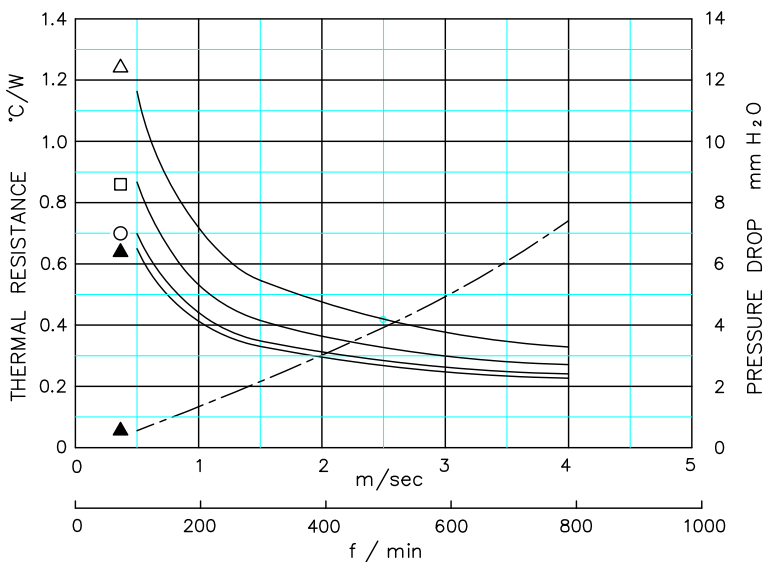
Low Pressure Drop and  
Low Thermal Resistance Heat Sink  
with attachment holes

# UB100S



MODEL	HEIGHT $h$	WEIGHT (grams)
UB100S-15B	15	204.0
UB100S-20B	20	229.7
UB100S-25B	25	255.4
UB100S-30B	30	281.0

MATERIAL : A 6063  
FINISH : BLACK ANODIZE  
DIMENSIONS : mm



- △ UB100S-15B
- UB100S-20B
- UB100S-25B
- ▲ UB100S-30B

● DUCTED CONDITION  
DUMMY HEATER SIZE: 25 SQ  
THERMAL RESISTANCE ———  
PRESSURE DROP - - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE. REFER TO TECHNICAL INFORMATION.

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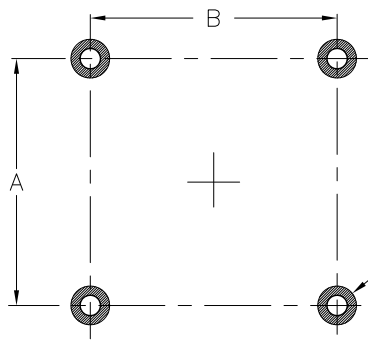
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REF



● BOARD KEEPOUT PATTERNS

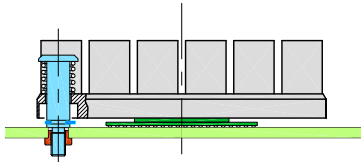


LPD80S AND UB80S	70.0	70.0
LPD90S AND UB90S	80.0	80.0
LPD100S AND UB100S	90.0	90.0
MODEL	A	B

ø8.0 KEEP-OUT AREA  
NO COMPONENT PLACEMENT

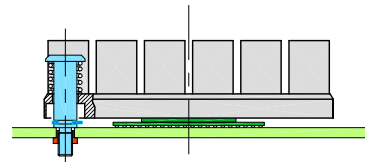
● INSTALLATION

USE PEM SMTSO-M3-\*\*



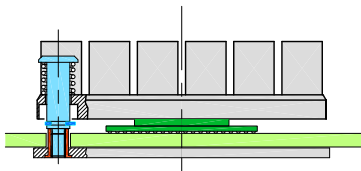
REQUIRES ø4.22 THRU HOLES IN BOARD.  
PEM NUTS NEED THE SOLDERING.

USE MAC8 TH-1.6-\*\*-M3



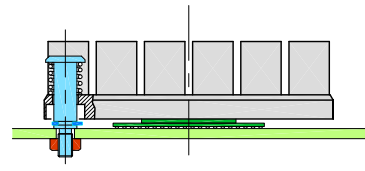
REQUIRES ø3.70 THRU HOLES IN BOARD.  
MAC8 THREAD INSERT NEED THE SOLDERING.  
RECOMMENDED P.C.B THICKNESS  
MIN 1.6mm ~ MAX 3.7mm

USE ALPHA STANDARD BACKING PLATE



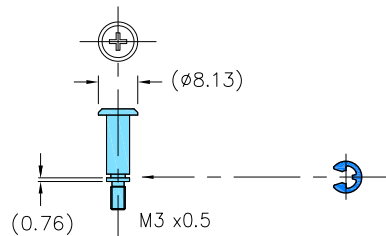
REQUIRES ø4.80 THRU HOLES IN BOARD.

USE HEX NUTS M3x0.5



REQUIRES ø3.30 THRU HOLES IN BOARD.

SHOULDER-SCREW / RETAINING RING E-3.0



REFER TO THE DRAWING FOR DETAIL SPECIFICATION.