

# ZM Series ZH Series

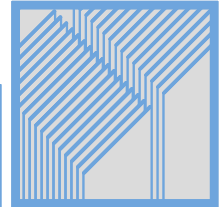
Ultra-High Performance Heat Sink  
with Attachment Holes

**ALPHA**

# ALPHA

## Ultra-High Performance Heat Sink with attachment holes

# ZM25

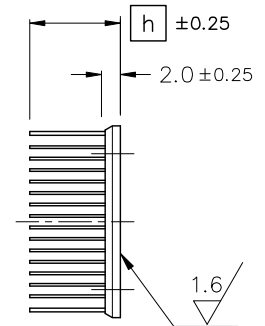
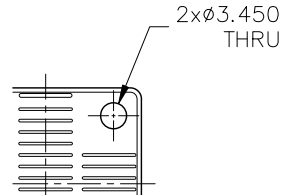
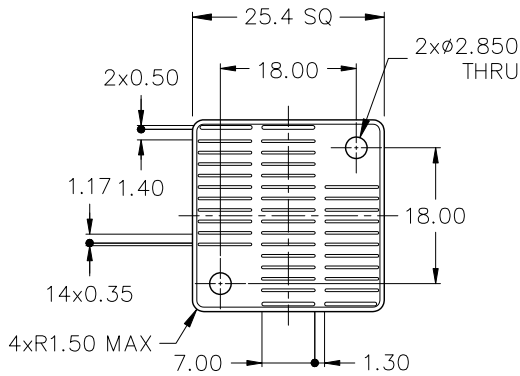


DIM



ZM25-XXBC  
FOR  $\phi 2.500 \pm 0.05$  PCB HOLES

ZM25-XXBP  
FOR  $\phi 3.175 \pm 0.05$  PCB HOLES



FOR  $\phi 2.500 \pm 0.05$  PCB HOLES

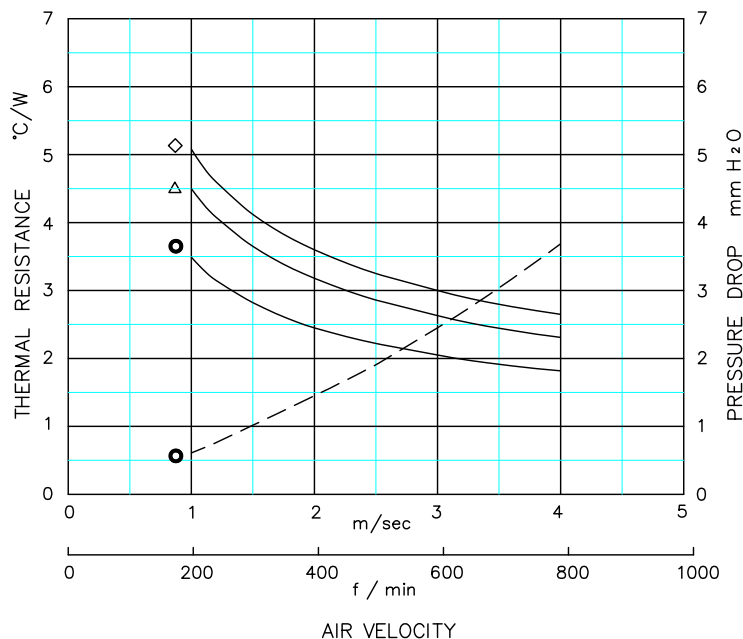
MODEL	HEIGHT $h$	WEIGHT(g)
ZM25-8BC	8	4.9
ZM25-9.5BC	9.5	5.3
ZM25-12.7BC	12.7	6.1

FOR  $\phi 3.175 \pm 0.05$  PCB HOLES

MODEL	HEIGHT $h$	WEIGHT(g)
ZM25-8BP	8	4.9
ZM25-9.5BP	9.5	5.3
ZM25-12.7BP	12.7	6.1

MATERIAL : A 6063  
FINISH : BLACK ANODIZE  
DIMENSIONS : mm

DATA



- ◇ ZM25-8BC, ZM25-8BP
- △ ZM25-9.5BC, ZM25-9.5BP
- ZM25-12.7BC, ZM25-12.7BP

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

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

Alpha Company Ltd.

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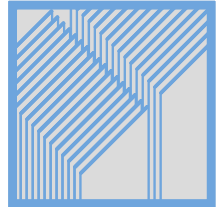
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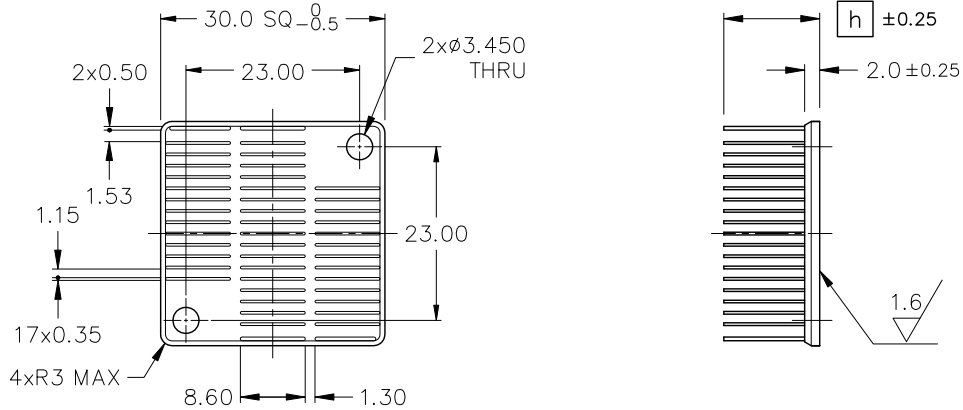
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Ultra-High Performance Heat Sink  
with attachment holes

# ZM30



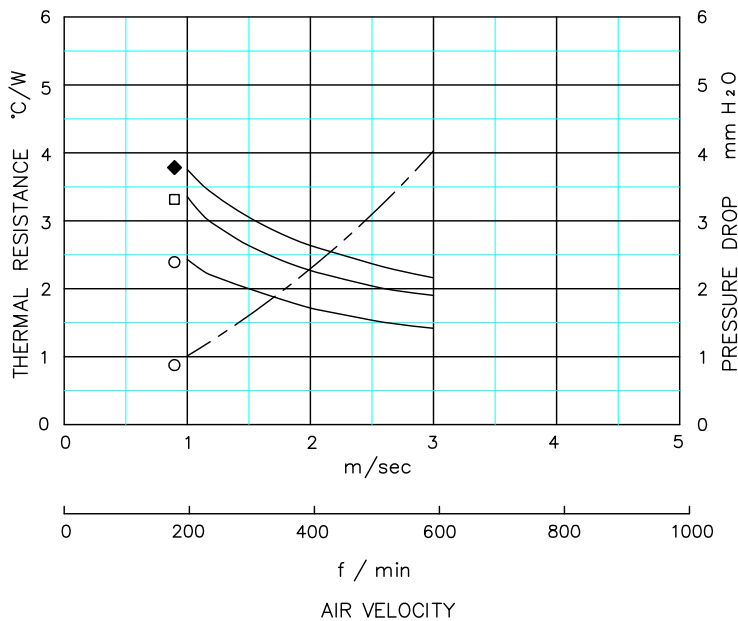
DIM



MODEL	HEIGHT $h$	WEIGHT(g)
ZM30-8BP	8.0	6.8
ZM30-9.5BP	9.5	7.4
ZM30-12.7BP	12.7	8.6

MATERIAL : A 6063  
FINISH : BLACK ANODIZE  
DIMENSIONS : mm

DATA



- ◆ ZM30-8BP
- ZM30-9.5BP
- ZM30-12.7BP

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

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.  
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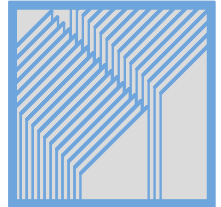
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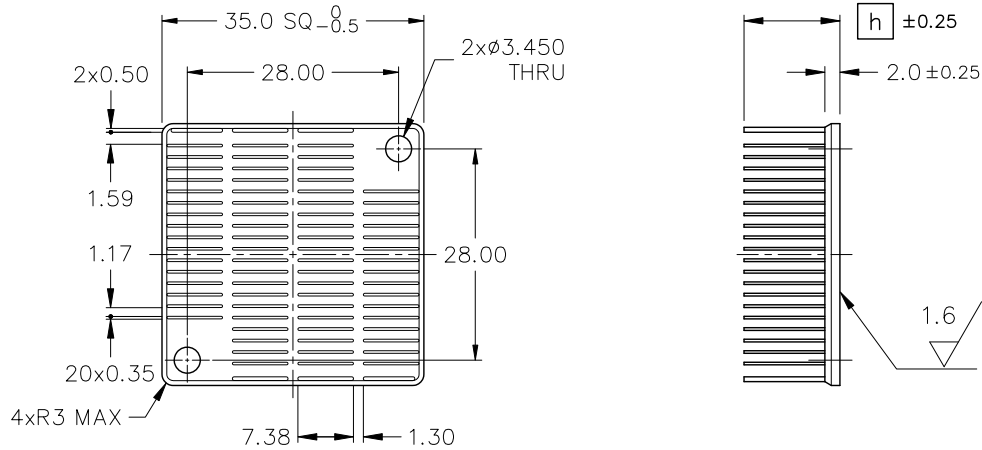
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## Ultra-High Performance Heat Sink with attachment holes

# ZM35



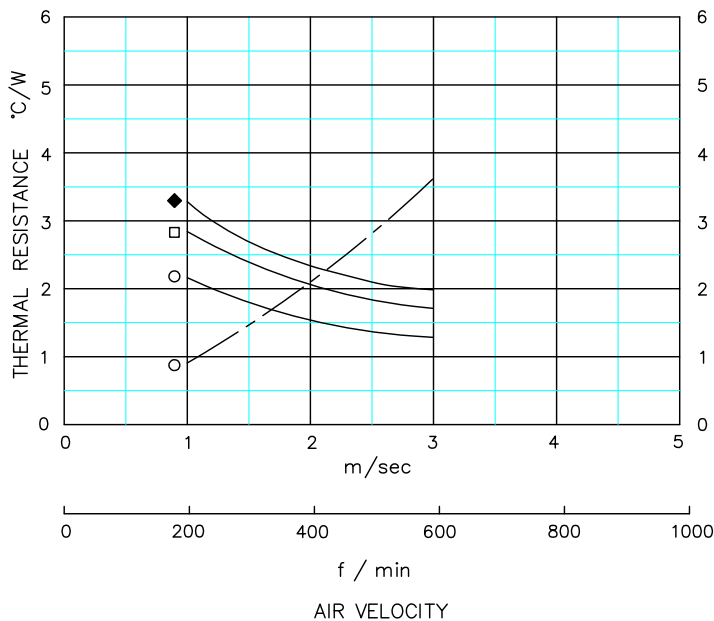
DIM



MODEL	HEIGHT [h]	WEIGHT(g)
ZM35-8BP	8.0	6.8
ZM35-9.5BP	9.5	7.4
ZM35-12.7BP	12.7	8.6

MATERIAL : A 6063  
 FINISH : BLACK ANODIZE  
 DIMENSIONS : mm

DATA



- ◆ ZM35-8BP
- ZM35-9.5BP
- ZM35-12.7BP

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

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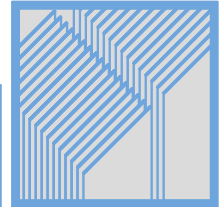
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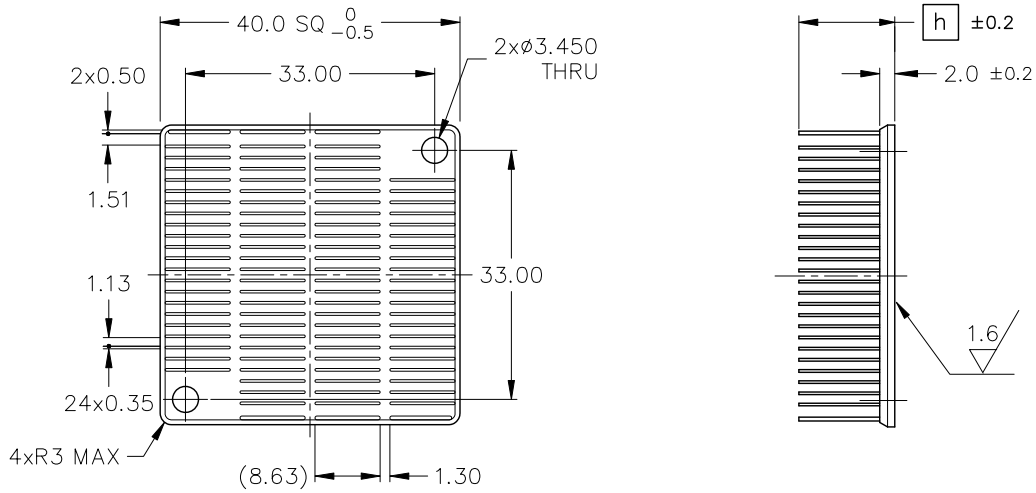
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## Ultra-High Performance Heat Sink with attachment holes

# ZM40



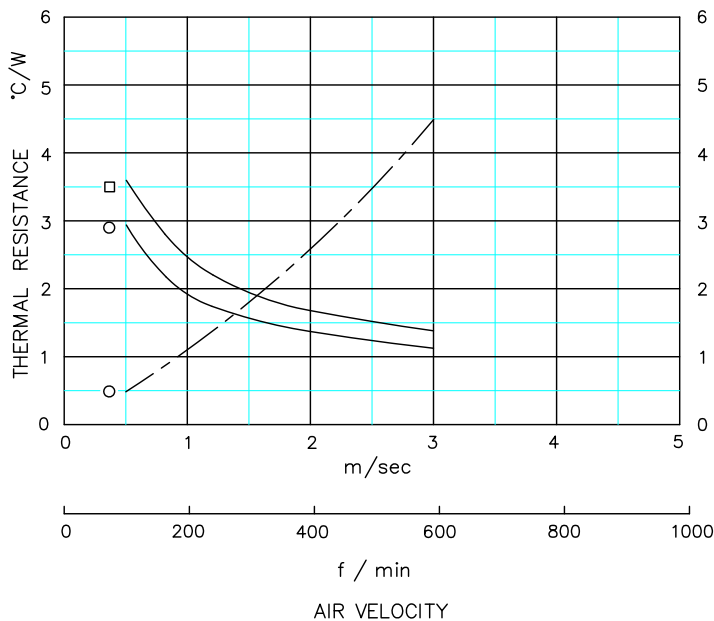
DIM



MODEL	HEIGHT [h]	WEIGHT(g)
ZM40-9.5BP	9.5	14.9
ZM40-12.7BP	12.7	17.6

MATERIAL : A 6063  
 FINISH : BLACK ANODIZE  
 DIMENSIONS : mm

DATA



□ ZM40-9.5BP  
 ○ ZM40-12.7BP

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

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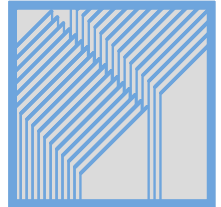
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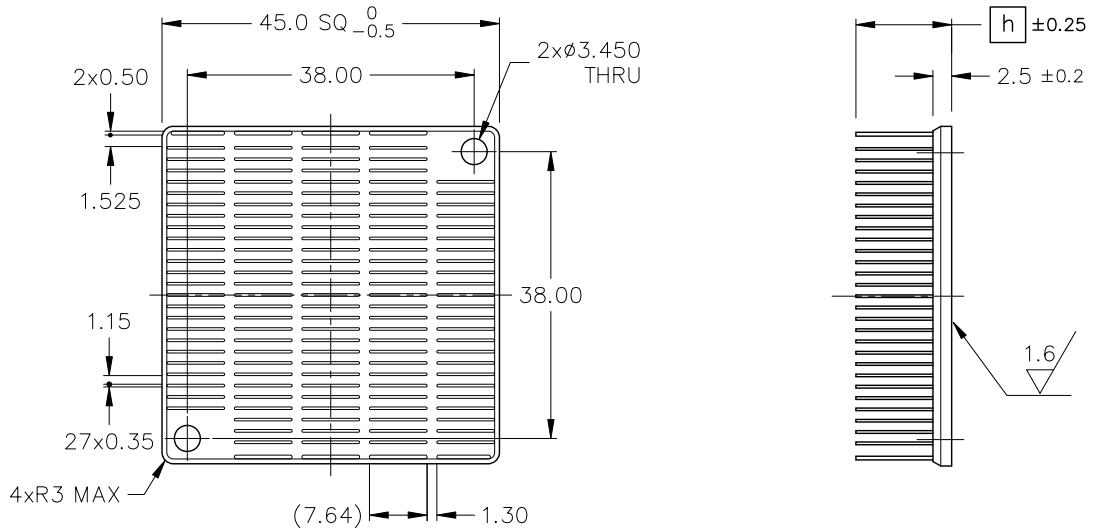
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## Ultra-High Performance Heat Sink ZM45 with attachment holes



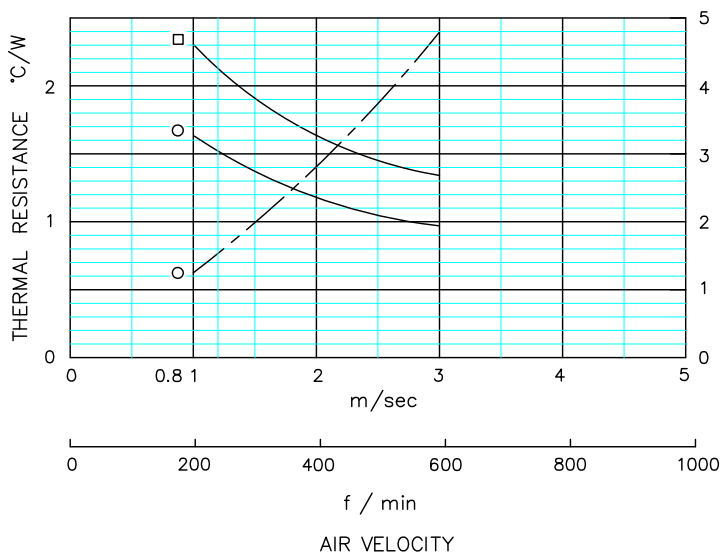
DIM



MODEL	HEIGHT [h]	WEIGHT(g)
ZM45-9.5BP	9.5	20.9
ZM45-12.7BP	12.7	24.7

MATERIAL : A 6063  
FINISH : BLACK ANODIZE  
DIMENSIONS : mm

DATA



□ ZM45-9.5BP  
○ ZM45-12.7BP

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

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

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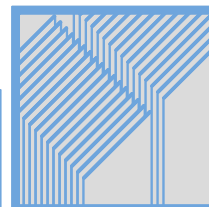
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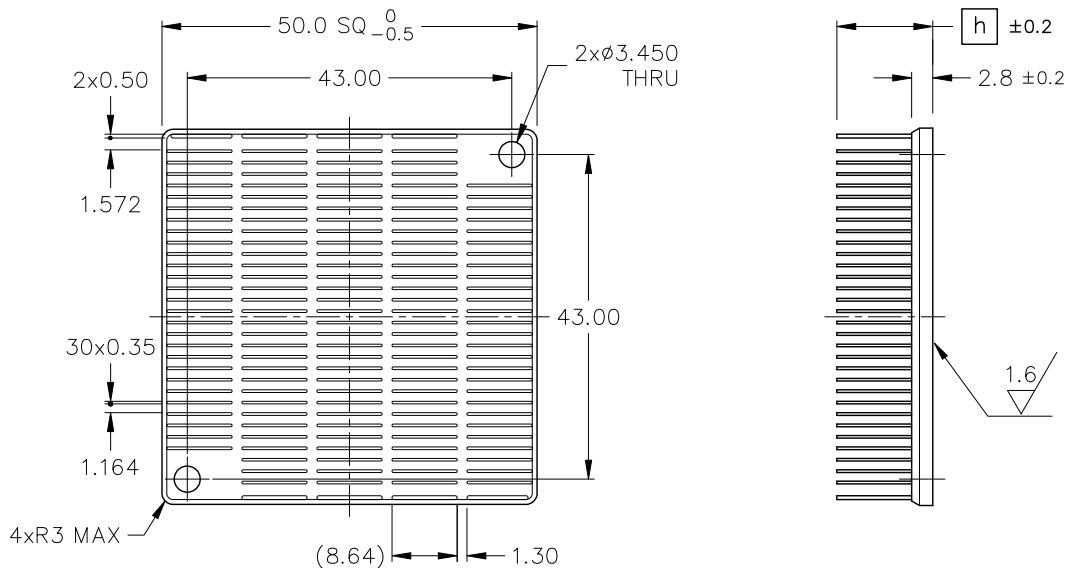
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## Ultra-High Performance Heat Sink ZM50 with attachment holes



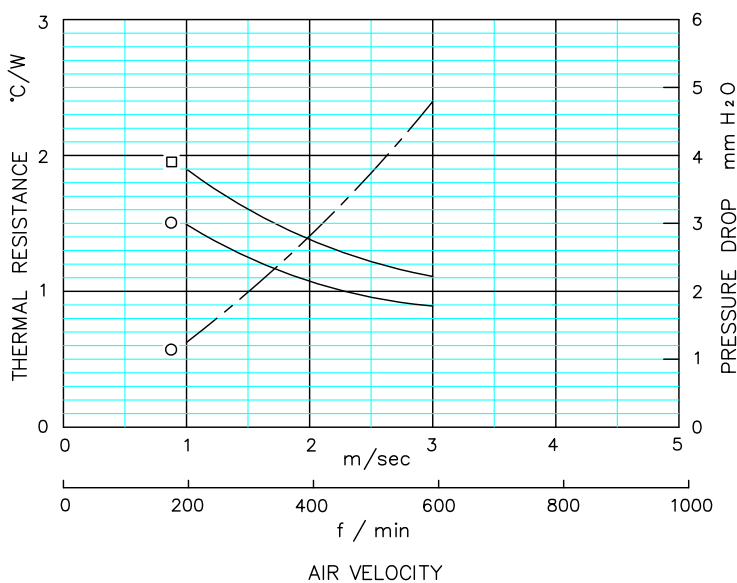
DIM



MODEL	HEIGHT $h$	WEIGHT(g)
ZM50-9.5BP	9.5	26.4
ZM50-12.7BP	12.7	30.7

MATERIAL : A 6063  
FINISH : BLACK ANODIZE  
DIMENSIONS : mm

DATA



□ ZM50-9.5BP  
○ ZM50-12.7BP

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

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

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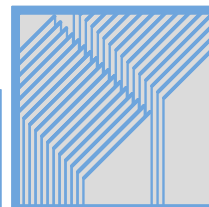
256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN  
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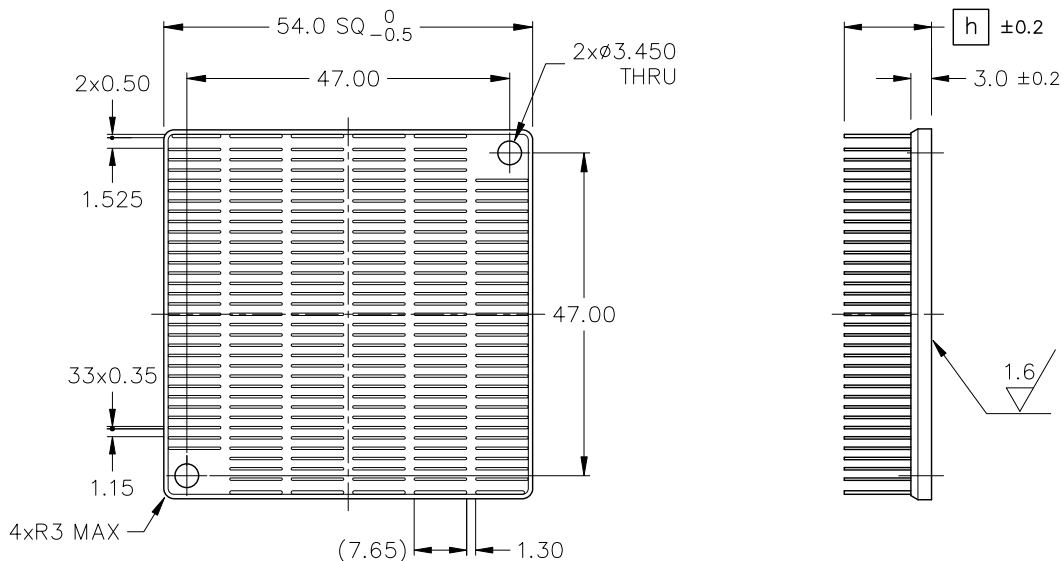
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# ALPHA

## Ultra-High Performance Heat Sink ZM54 with attachment holes



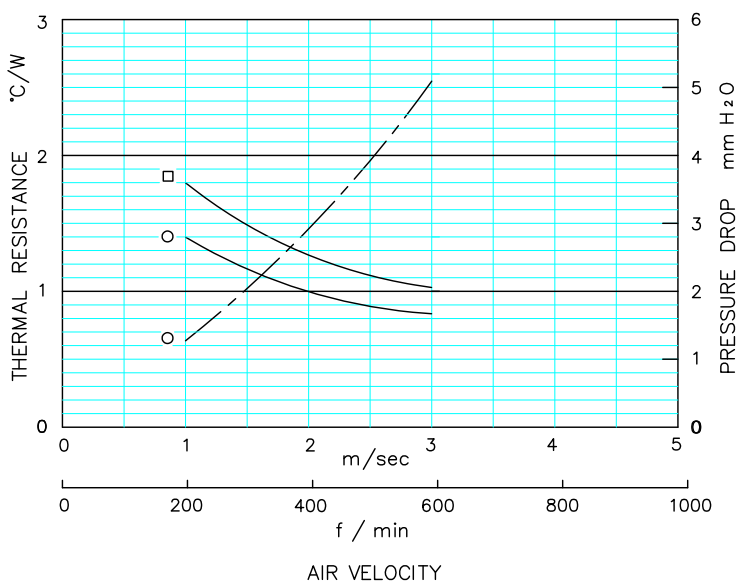
DIM



MODEL	HEIGHT [h]	WEIGHT(g)
ZM54-9.5BP	9.5	32.4
ZM54-12.7BP	12.7	37.2

MATERIAL : A 6063  
 FINISH : BLACK ANODIZE  
 DIMENSIONS : mm

DATA



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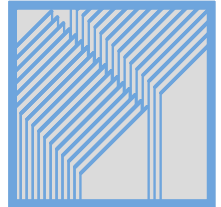
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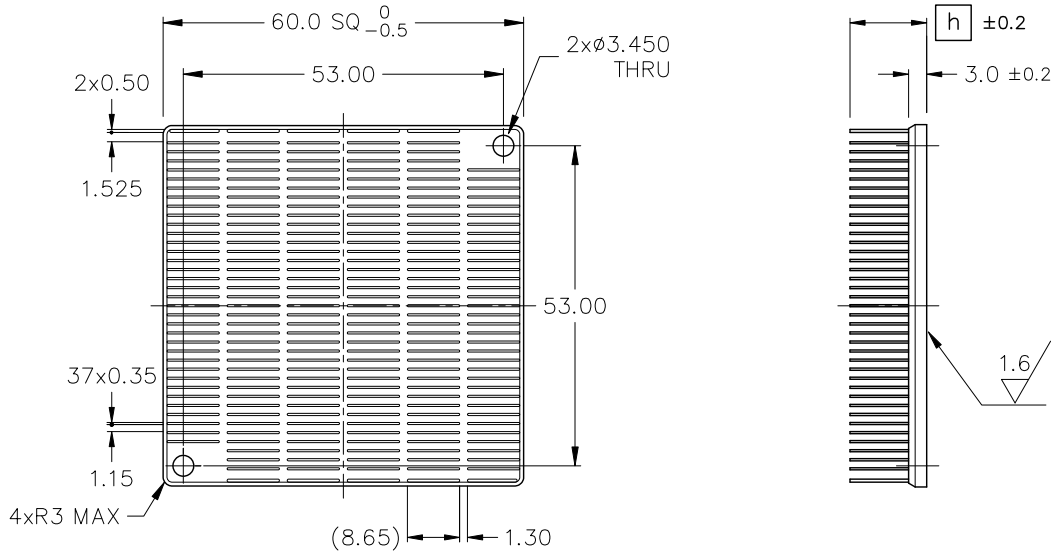
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## Ultra-High Performance Heat Sink with attachment holes

# ZM60



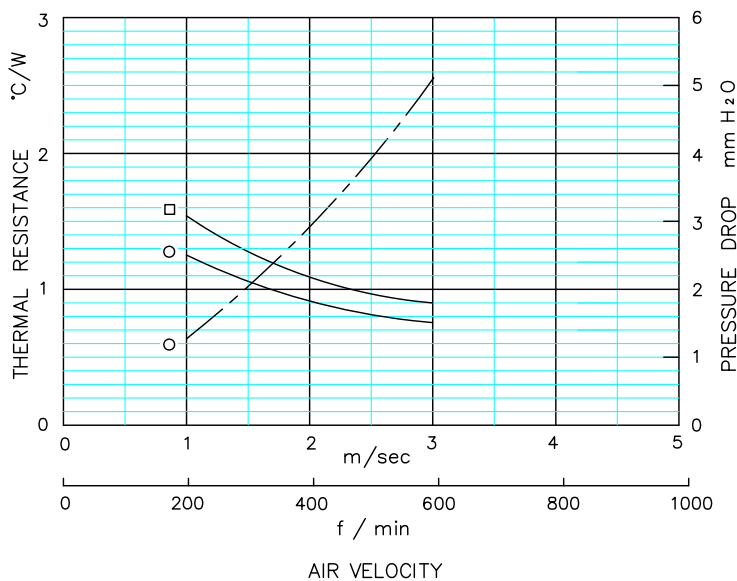
DIM



MODEL	HEIGHT [h]	WEIGHT(g)
ZM60-9.5BP	9.5	40.9
ZM60-12.7BP	12.7	46.7

MATERIAL : A 6063  
 FINISH : BLACK ANODIZE  
 DIMENSIONS : mm

DATA



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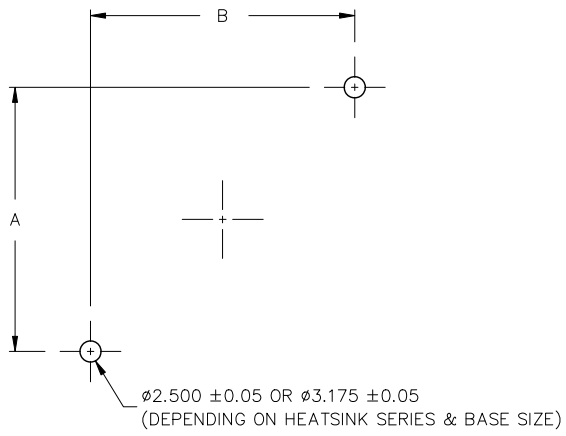
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REF



## PCB HOLE LAYOUT

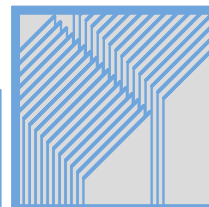


LPDM25, UBM25, ZM25	18.0	18.0
LPDM30, UBM30, ZM30	23.0	23.0
LPDM35, UBM35, ZM35	28.0	28.0
LPDM40, UBM40, ZM40	33.0	33.0
LPDM45, UBM45, ZM45	38.0	38.0
LPDM50, UBM50, ZM50, FFM50	43.0	43.0
LPDM54, UBM54, ZM54, FFM54	47.0	47.0
LPDM60, UBM60, ZM60	53.0	53.0
LPDM70, UBM70	63.0	63.0
MODEL	A	B

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## Ultra-High Performance Heat Sink with attachment holes

# ZH 25

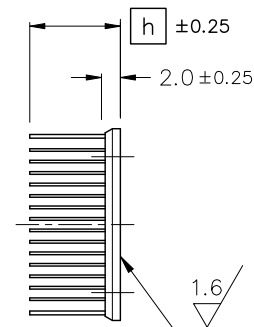
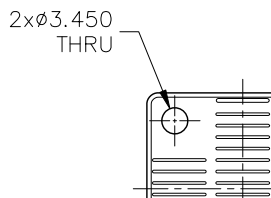
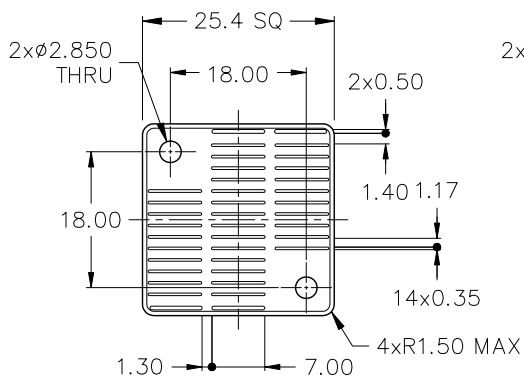


DIM



ZH25-XXBC  
FOR  $\phi 2.500 \pm 0.05$  PCB HOLES

ZH25-XXBP  
FOR  $\phi 3.175 \pm 0.05$  PCB HOLES



FOR  $\phi 2.500 \pm 0.05$  PCB HOLES

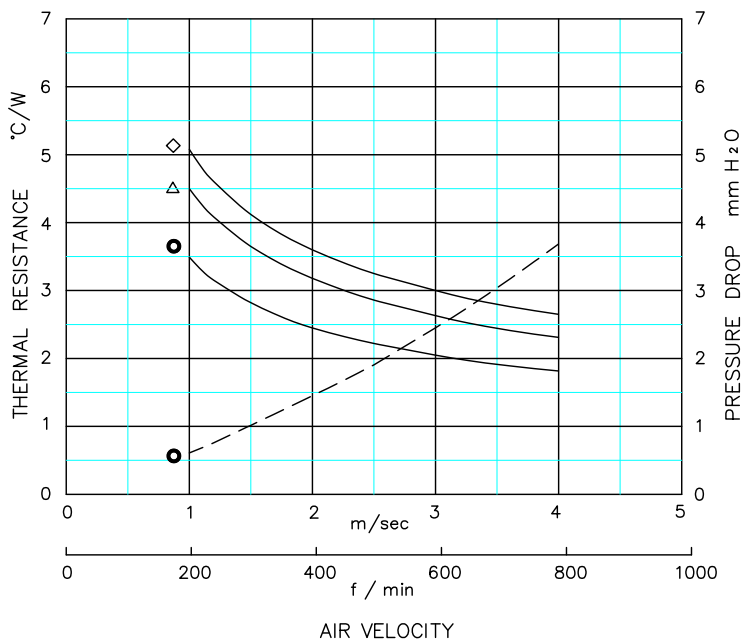
MODEL	HEIGHT $h$	WEIGHT(g)
ZH25-8BC	8	4.9
ZH25-9.5BC	9.5	5.3
ZH25-12.7BC	12.7	6.1

FOR  $\phi 3.175 \pm 0.05$  PCB HOLES

MODEL	HEIGHT $h$	WEIGHT(g)
ZH25-8BP	8	4.9
ZH25-9.5BP	9.5	5.3
ZH25-12.7BP	12.7	6.1

MATERIAL : A 6063  
FINISH : BLACK ANODIZE  
DIMENSIONS : mm

DATA



- ◇ ZH25-8BC, ZH25-8BP
- △ ZH25-9.5BC, ZH25-9.5BP
- ZH25-12.7BC, ZH25-12.7BP

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

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.  
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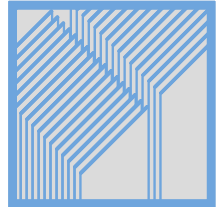
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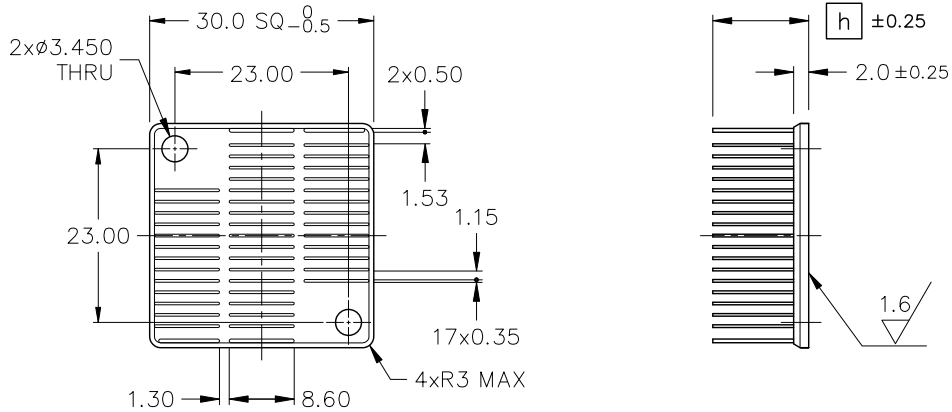
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## Ultra-High Performance Heat Sink with attachment holes

# ZH30



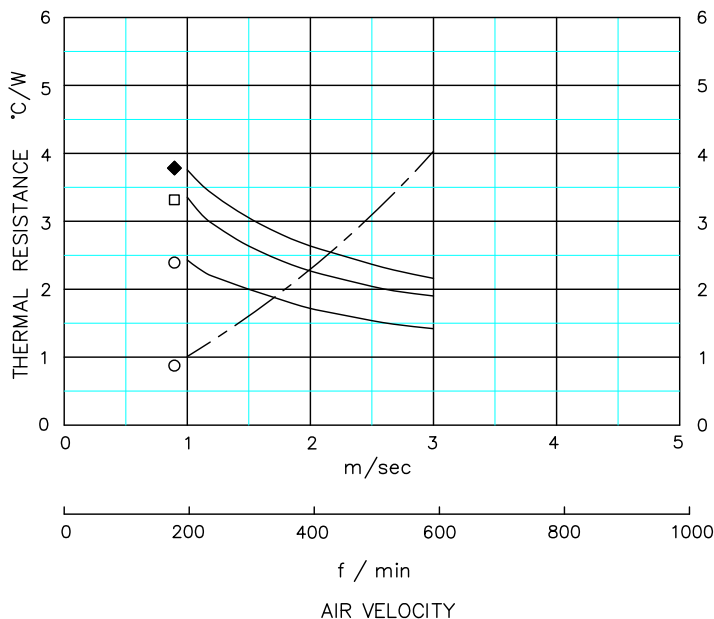
DIM



MODEL	HEIGHT [h]	WEIGHT(g)
ZH30-8BP	8.0	6.8
ZH30-9.5BP	9.5	7.4
ZH30-12.7BP	12.7	8.6

MATERIAL : A 6063  
 FINISH : BLACK ANODIZE  
 DIMENSIONS : mm

DATA



- ◆ ZH30-8BP
- ZH30-9.5BP
- ZH30-12.7BP

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

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.  
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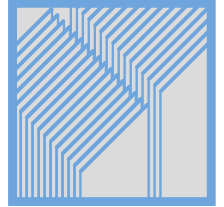
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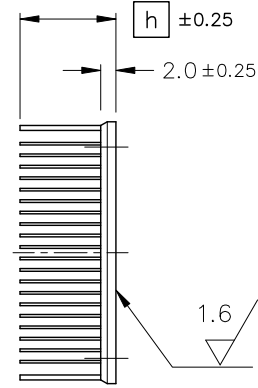
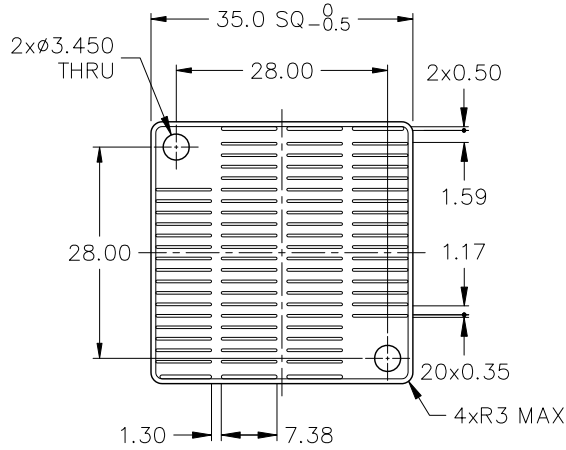
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## Ultra-High Performance Heat Sink with attachment holes

# ZH35



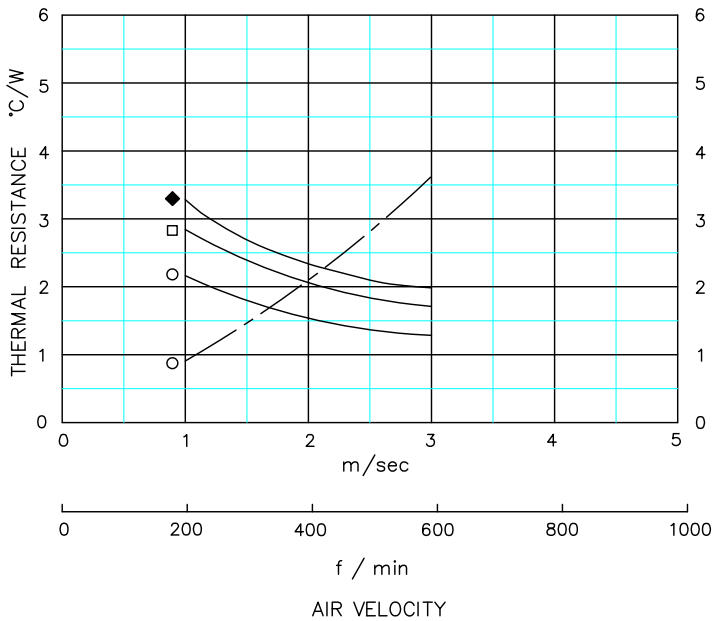
### DIM



MODEL	HEIGHT [h]	WEIGHT(g)
ZH35-8BP	8.0	6.8
ZH35-9.5BP	9.5	7.4
ZH35-12.7BP	12.7	8.6

MATERIAL : A 6063  
 FINISH : BLACK ANODIZE  
 DIMENSIONS : mm

### DATA



- ◆ ZH35-8BP
- ZH35-9.5BP
- ZH35-12.7BP

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

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.  
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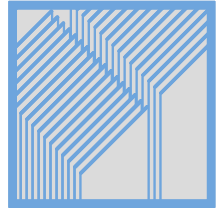
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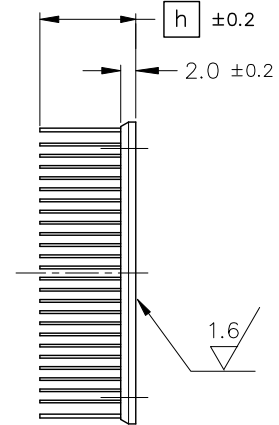
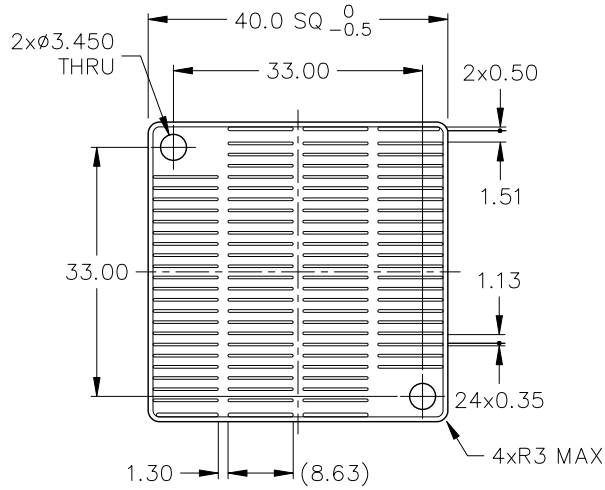
# ALPHA

## Ultra-High Performance Heat Sink with attachment holes

# ZH 40



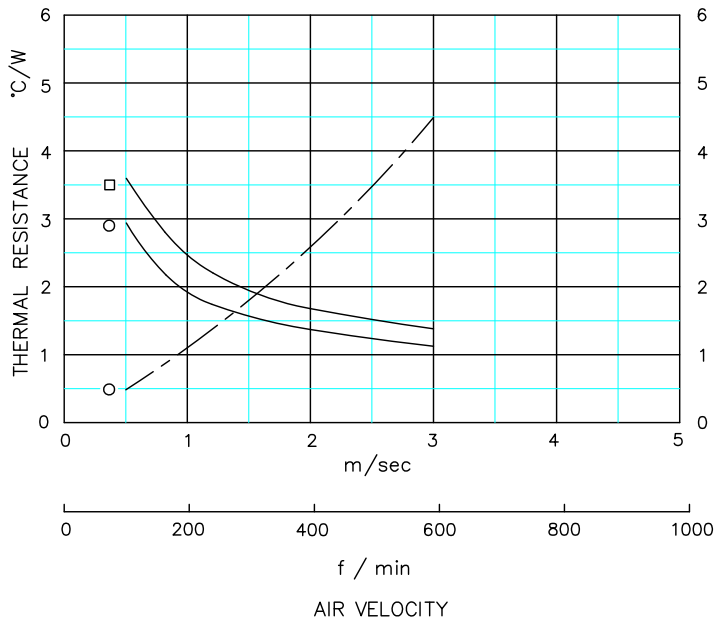
DIM



MODEL	HEIGHT [h]	WEIGHT(g)
ZH40-9.5BP	9.5	14.9
ZH40-12.7BP	12.7	17.6

MATERIAL : A 6063  
 FINISH : BLACK ANODIZE  
 DIMENSIONS : mm

DATA



- ZH40-9.5BP
- ZH40-12.7BP

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

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

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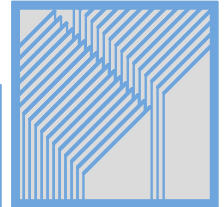
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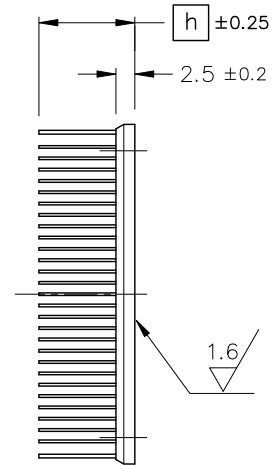
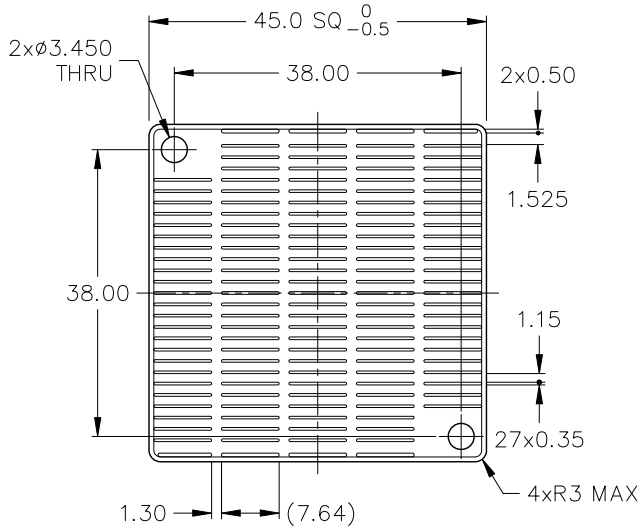
# ALPHA

## Ultra-High Performance Heat Sink with attachment holes

# ZH 45



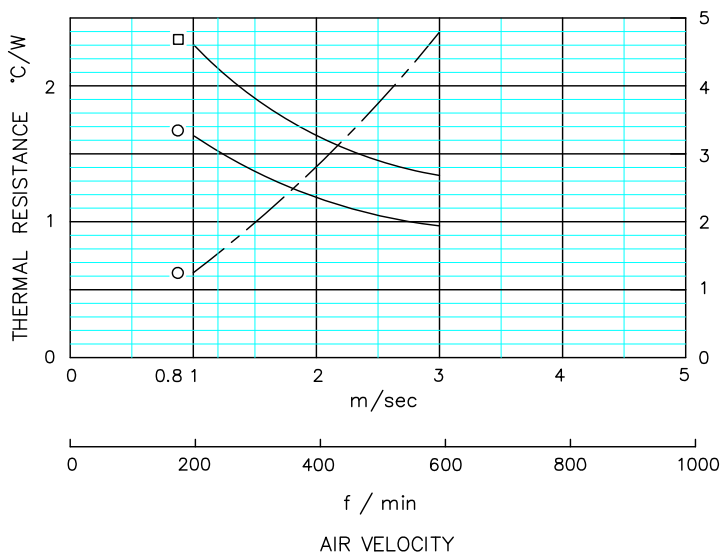
DIM



MODEL	HEIGHT [h]	WEIGHT(g)
ZH45-9.5BP	9.5	20.9
ZH45-12.7BP	12.7	24.7

MATERIAL : A 6063  
 FINISH : BLACK ANODIZE  
 DIMENSIONS : mm

DATA



□ ZH45-9.5BP  
 ○ ZH45-12.7BP

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

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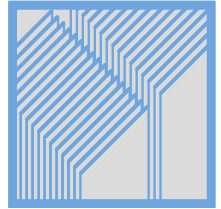
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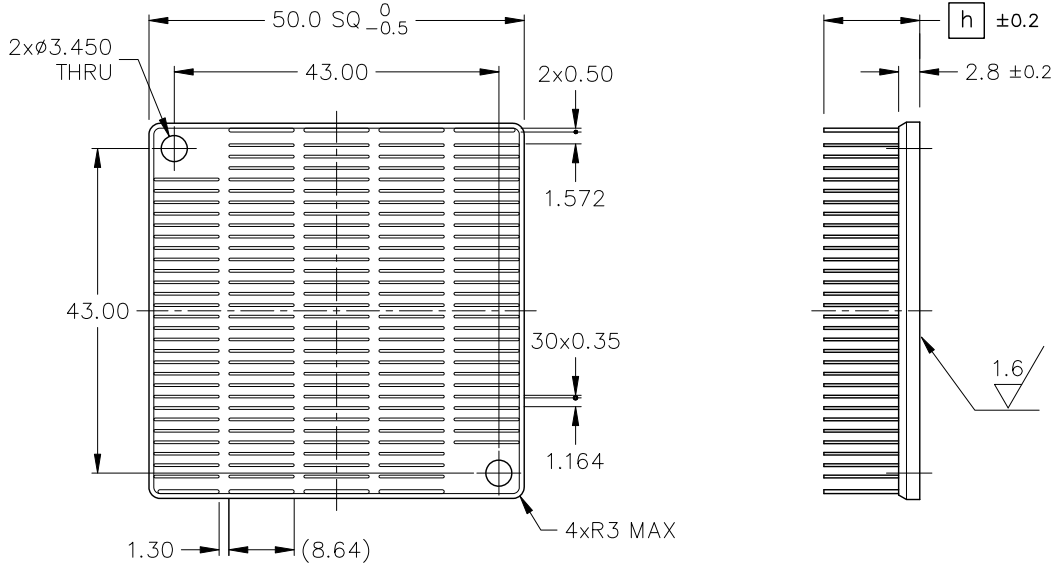
# ALPHA

## Ultra-High Performance Heat Sink with attachment holes

# ZH50



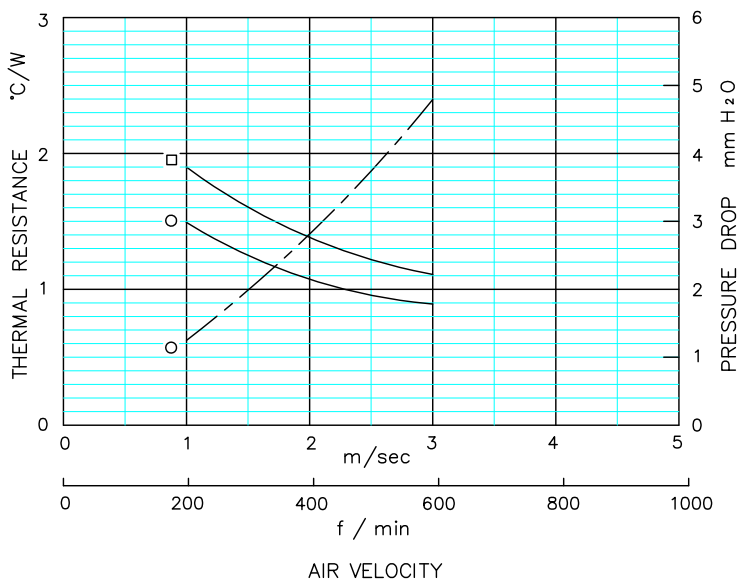
DIM



MODEL	HEIGHT $h$	WEIGHT(g)
ZH50-9.5BP	9.5	26.4
ZH50-12.7BP	12.7	30.7

MATERIAL : A 6063  
 FINISH : BLACK ANODIZE  
 DIMENSIONS : mm

DATA



□ ZH50-9.5BP  
 ○ ZH50-12.7BP

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

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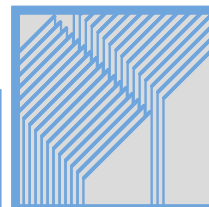
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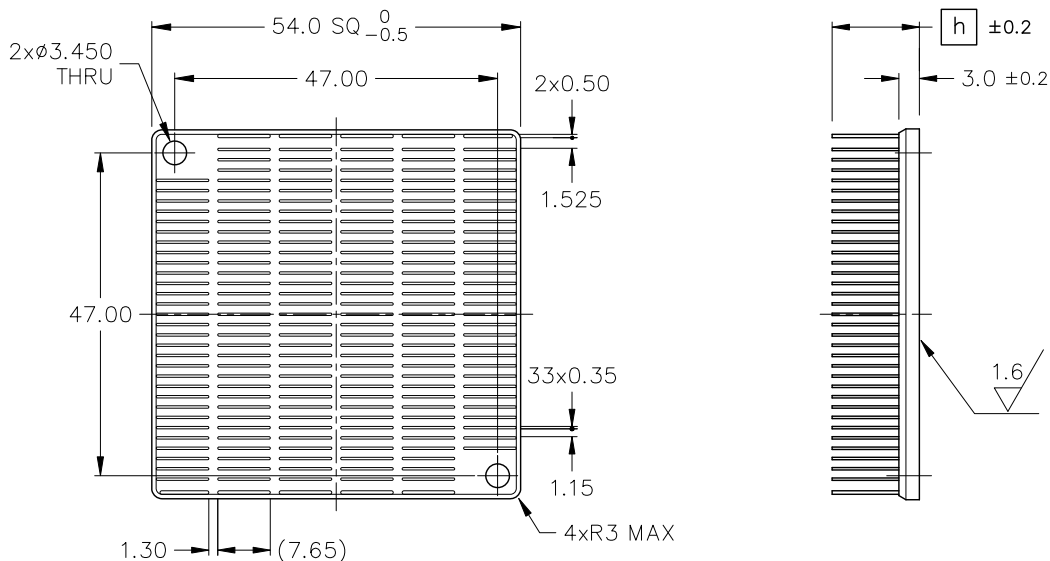
# ALPHA

## Ultra-High Performance Heat Sink with attachment holes

# ZH54



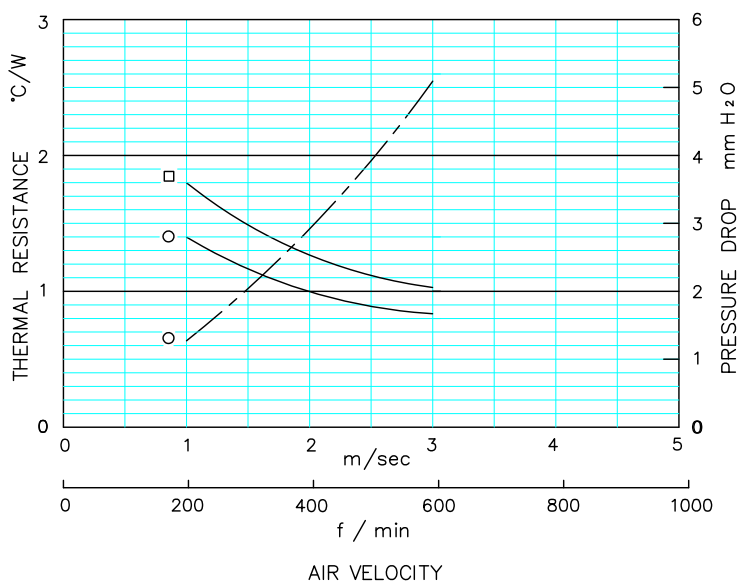
DIM



MODEL	HEIGHT $h$	WEIGHT(g)
ZH54-9.5BP	9.5	32.4
ZH54-12.7BP	12.7	37.2

MATERIAL : A 6063  
 FINISH : BLACK ANODIZE  
 DIMENSIONS : mm

DATA



- ZH54-9.5BP
- ZH54-12.7BP

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

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.  
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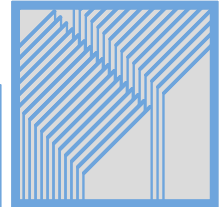
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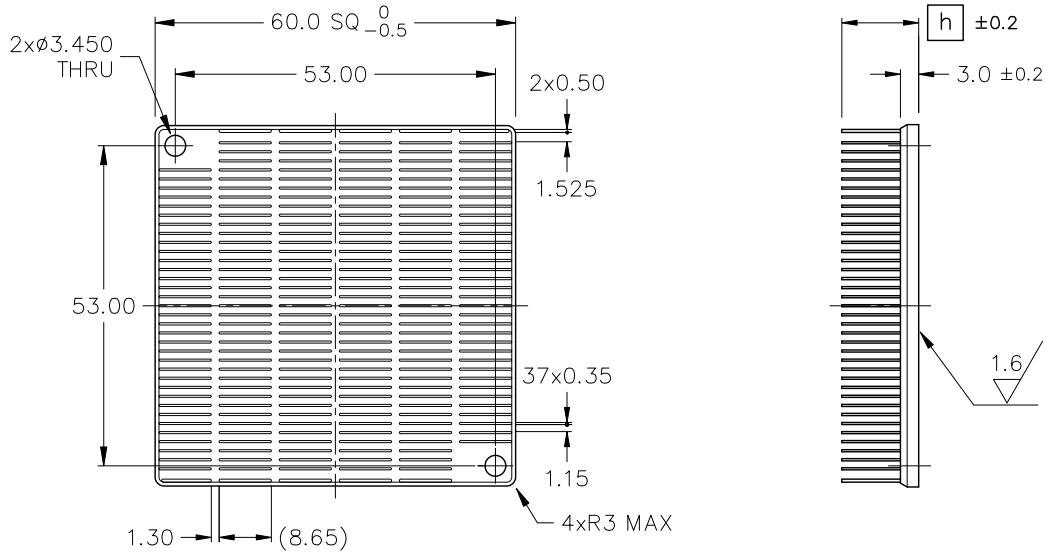
# ALPHA

## Ultra-High Performance Heat Sink with attachment holes

# ZH60



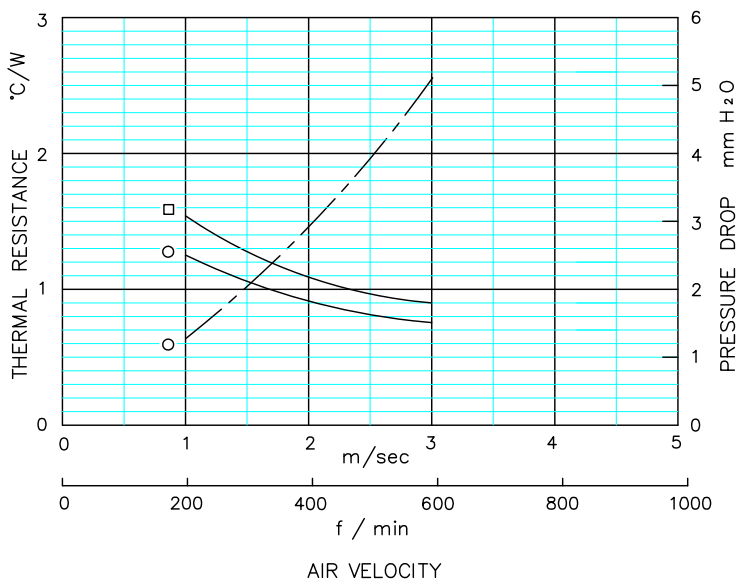
DIM



MODEL	HEIGHT [h]	WEIGHT(g)
ZH60-9.5BP	9.5	40.9
ZH60-12.7BP	12.7	46.7

MATERIAL : A 6063  
 FINISH : BLACK ANODIZE  
 DIMENSIONS : mm

DATA



□ ZH60-9.5BP  
 ○ ZH60-12.7BP

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

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.  
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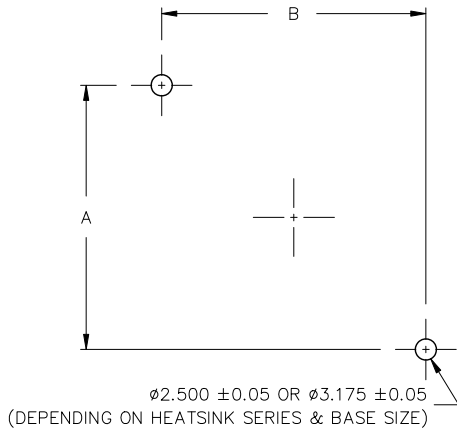
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REF



PCB HOLE LAYOUT



LPDH25, UBH25, ZH25	18.0	18.0
LPDH30, UBH30, ZH30	23.0	23.0
LPDH35, UBH35, ZH35	28.0	28.0
LPDH40, UBH40, ZH40	33.0	33.0
LPDH45, UBH45, ZH45	38.0	38.0
LPDH50, UBH50, ZH50, FFH50	43.0	43.0
LPDH54, UBH54, ZH54, FFH54	47.0	47.0
LPDH60, UBH60, ZH60	53.0	53.0
LPDH70, UBH70	63.0	63.0
MODEL	A	B