

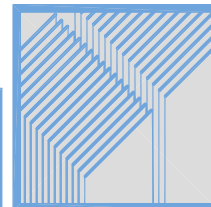
# Z Series

Ultra – High Performance Heat Sink

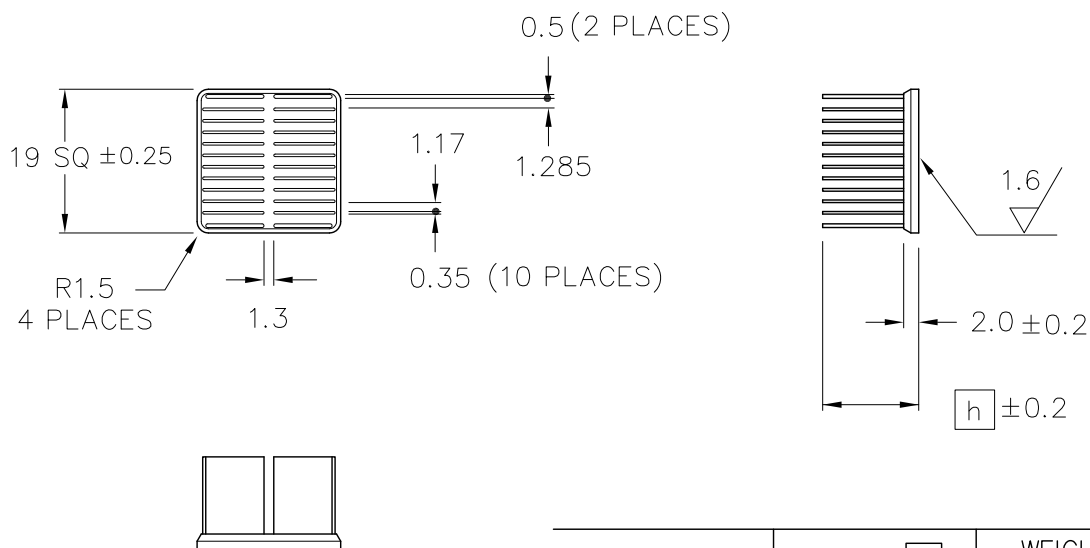
**ALPHA**

**ALPHA**

Ultra - High Performance Heat Sink

**Z19**

DIM

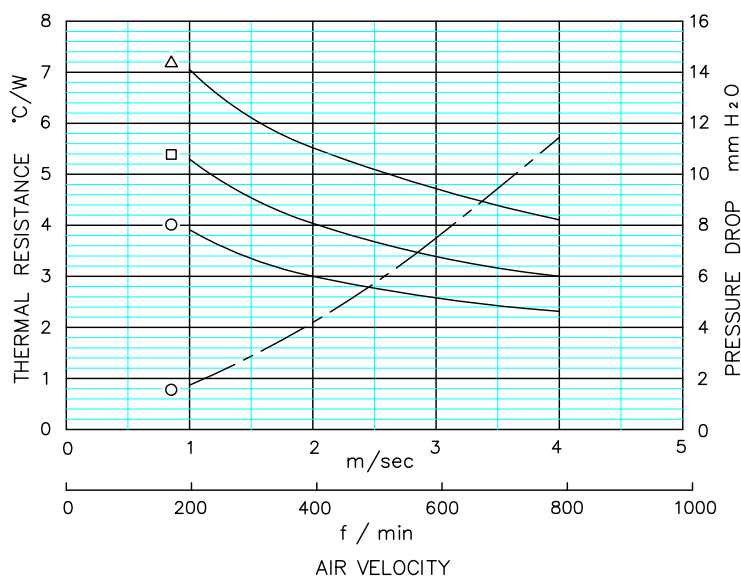


HEAT SINK  
 MATERIAL : A 6063  
 FINISH : BLACK ANODIZE

| MODEL     | HEIGHT $h$ | WEIGHT (grams) |
|-----------|------------|----------------|
| Z19-6.3B  | 6.3        | 2.6            |
| Z19-9.5B  | 9.5        | 3.2            |
| Z19-12.7B | 12.7       | 3.8            |

Dimensions : mm

DATA



- Thermal Resistance ( Ducted )  
 ( Solid Line — )
- Pressure Drop  
 ( Center Line - - )

- △ Z19-6.3B
- Z19-9.5B
- Z19-12.7B

■ Based on Alpha's Standard Test Procedure. (Refer to page marked Technical Information.)  
 Dummy Heater Size : □ 12.7(mm)

Alpha Company Ltd.

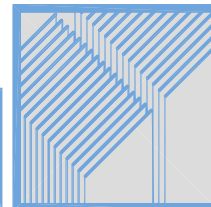
256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN  
 PHONE +81(55)966 0789  
 FAX +81(55)966 9192  
 E mail : alpha@micforg.co.jp  
 URL : <http://www.micforg.co.jp>

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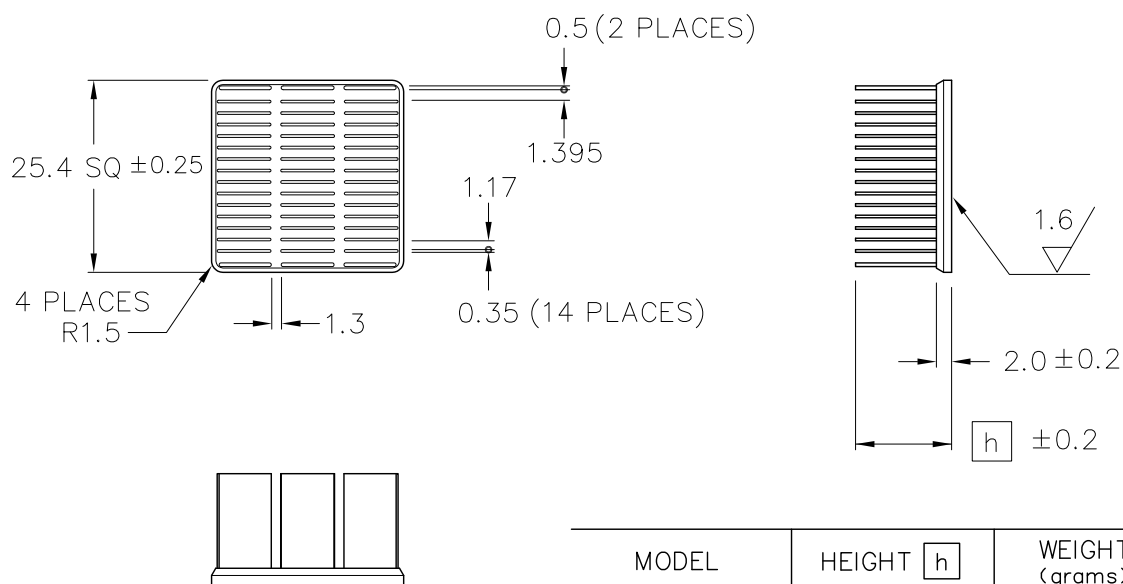
473 Sapena Ct. #12 Santa Clara, CA 95054 USA  
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**ALPHA**

Ultra - High Performance Heat Sink

**Z25**

DIM

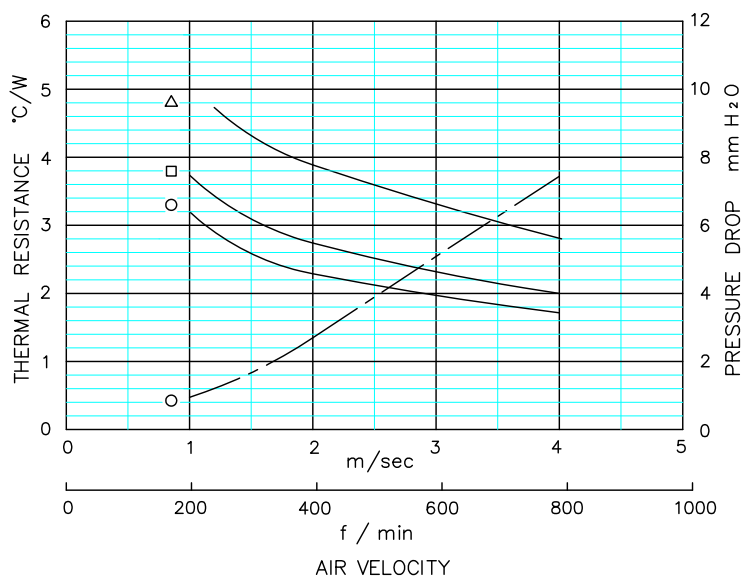


HEAT SINK  
 MATERIAL : A 6063  
 FINISH : BLACK ANODIZE

| MODEL     | HEIGHT [h] | WEIGHT (grams) |
|-----------|------------|----------------|
| Z25-6.3B  | 6.3        | 5.0            |
| Z25-9.5B  | 9.5        | 6.0            |
| Z25-12.7B | 12.7       | 7.0            |

Dimensions : mm

DATA



● Thermal Resistance ( Ducted )  
 ( Solid Line )  
 ● Pressure Drop  
 ( Center Line )

△ Z25-6.3B  
 □ Z25-9.5B  
 ○ Z25-12.7B

■ Based on Alpha's Standard Test Procedure. (Refer to page marked Technical Information.)  
 Dummy Heater Size : □ 12.7(mm)

Alpha Company Ltd.

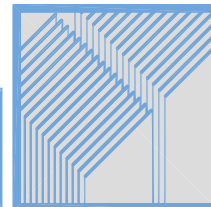
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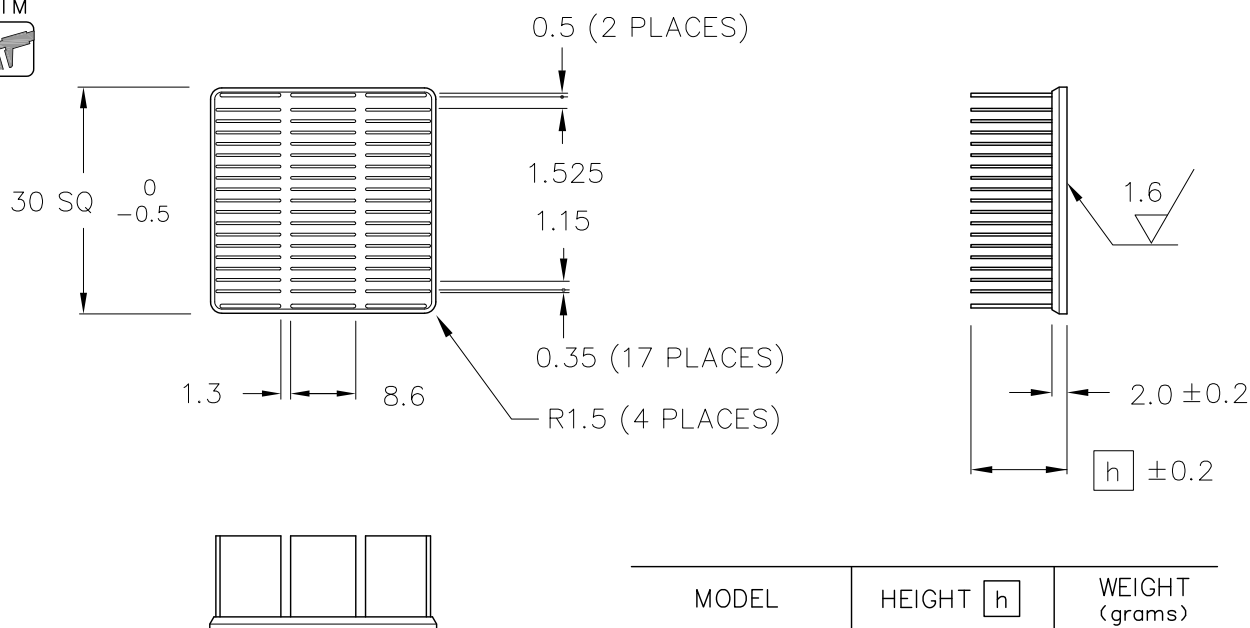
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**ALPHA**

Ultra - High Performance Heat Sink

**Z30**

DIM



HEAT SINK

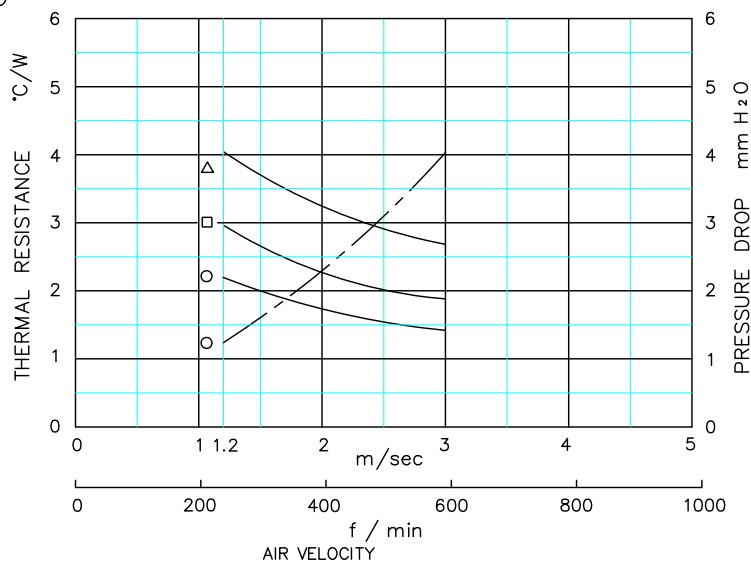
MATERIAL : A 6063

FINISH : BLACK ANODIZE

| MODEL     | HEIGHT $h$ | WEIGHT (grams) |
|-----------|------------|----------------|
| Z30-6.3B  | 6.3        | 7              |
| Z30-9.5B  | 9.5        | 8.5            |
| Z30-12.7B | 12.7       | 10             |

Dimensions : mm

DATA



● Thermal Resistance ( Ducted )

( Solid Line — )

● Pressure Drop

( Center Line - - - )

Δ Z30-6.3B

□ Z30-9.5B

○ Z30-12.7B

■ Based on Alpha's Standard Test Procedure. (Refer to page marked Technical Information.)  
 Dummy Heater Size : □ 12.7(mm)

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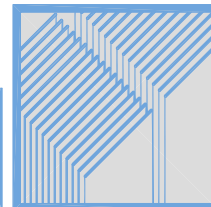
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E mail : sales@alphanovatech.com

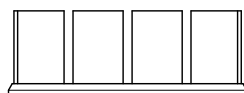
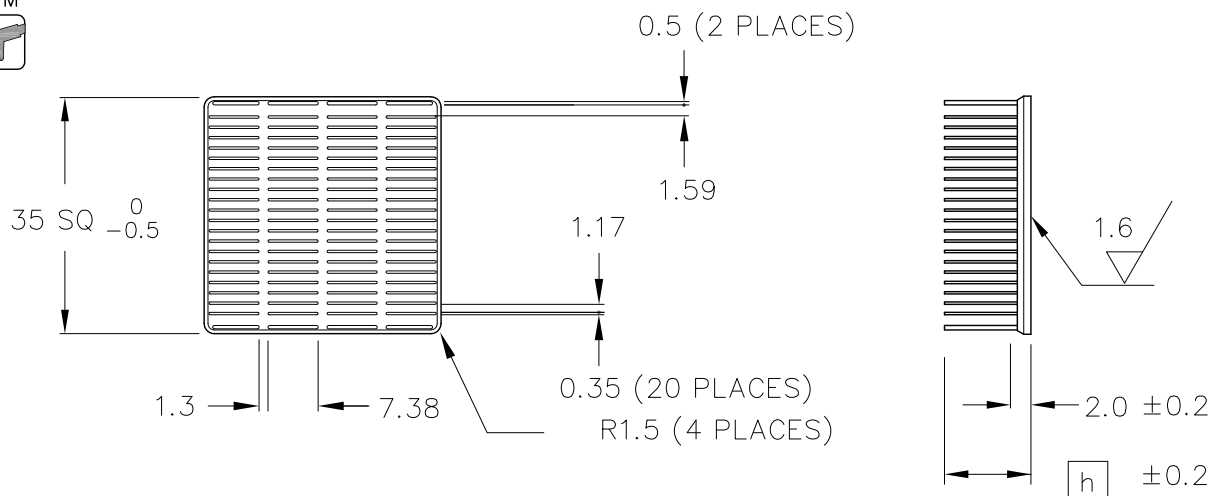
URL : <http://www.alphanovatech.com>

**ALPHA**

Ultra - High Performance Heat Sink

**Z35**

DIM

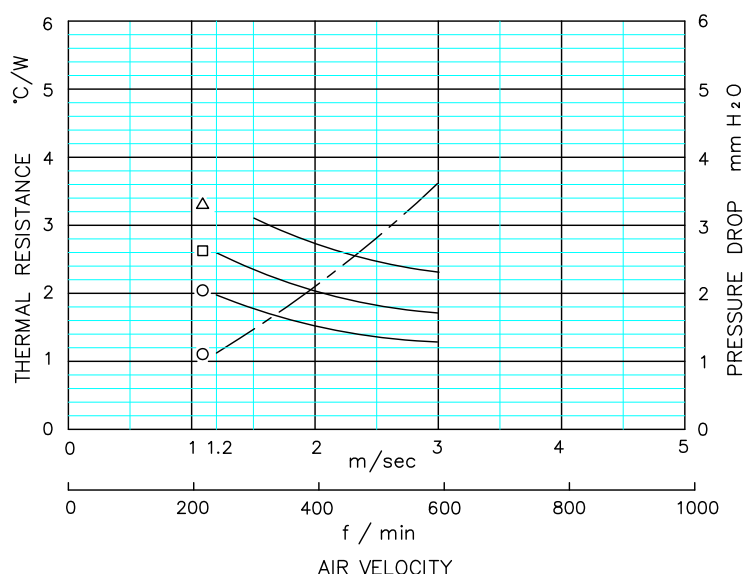


HEAT SINK  
 MATERIAL : A 6063  
 FINISH : BLACK ANODIZE

| MODEL     | HEIGHT $h$ | WEIGHT (grams) |
|-----------|------------|----------------|
| Z35-6.3B  | 6.3        | 9.5            |
| Z35-9.5B  | 9.5        | 11.5           |
| Z35-12.7B | 12.7       | 13.5           |

Dimensions : mm

DATA



● Thermal Resistance ( Ducted )

( Solid Line — )

● Pressure Drop

( Center Line - - - )

△ Z35-6.3B

□ Z35-9.5B

○ Z35-12.7B

■ Based on Alpha's Standard Test Procedure. (Refer to page marked Technical Information.)  
 Dummy Heater Size : □ 12.7(mm)

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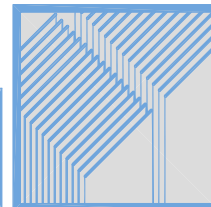
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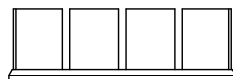
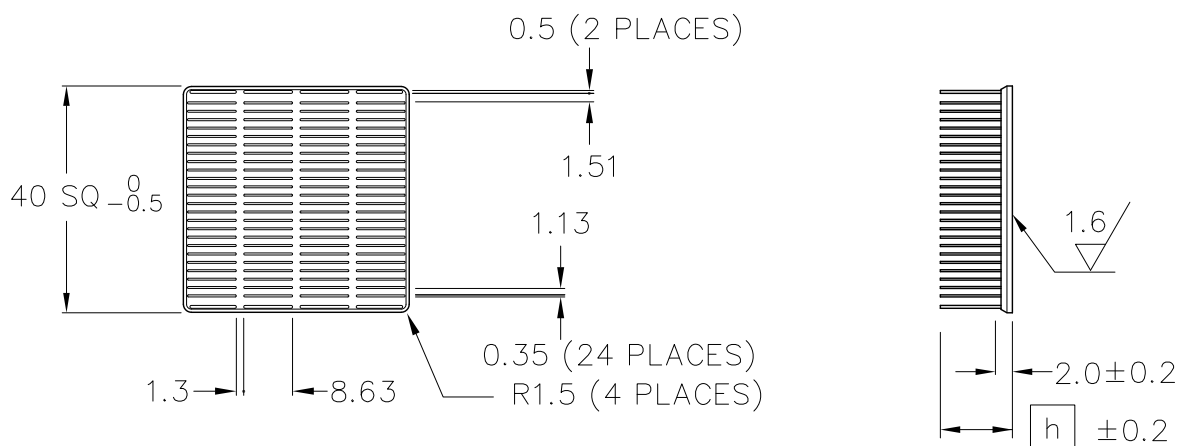
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**ALPHA**

Ultra - High Performance Heat Sink

**Z40**

DIM

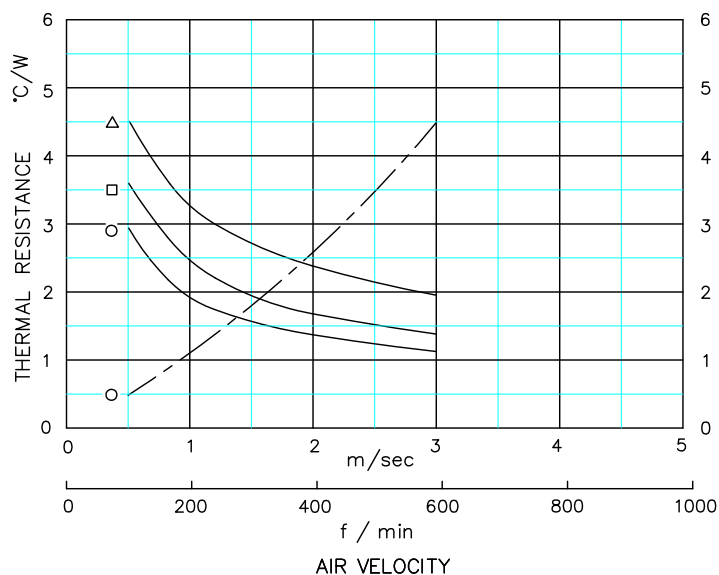


HEAT SINK  
 MATERIAL : A 6063  
 FINISH : BLACK ANODIZE

| MODEL     | HEIGHT $h$ | WEIGHT (grams) |
|-----------|------------|----------------|
| Z40-6.3B  | 6.3        | 12.5           |
| Z40-9.5B  | 9.5        | 15.5           |
| Z40-12.7B | 12.7       | 18.5           |

Dimensions : mm

DATA



Based on Alpha's Standard Test Procedure. (Refer to page marked Technical Information.)  
 Dummy Heater Size : □ 12.7(mm)

Alpha Company Ltd.

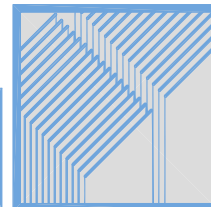
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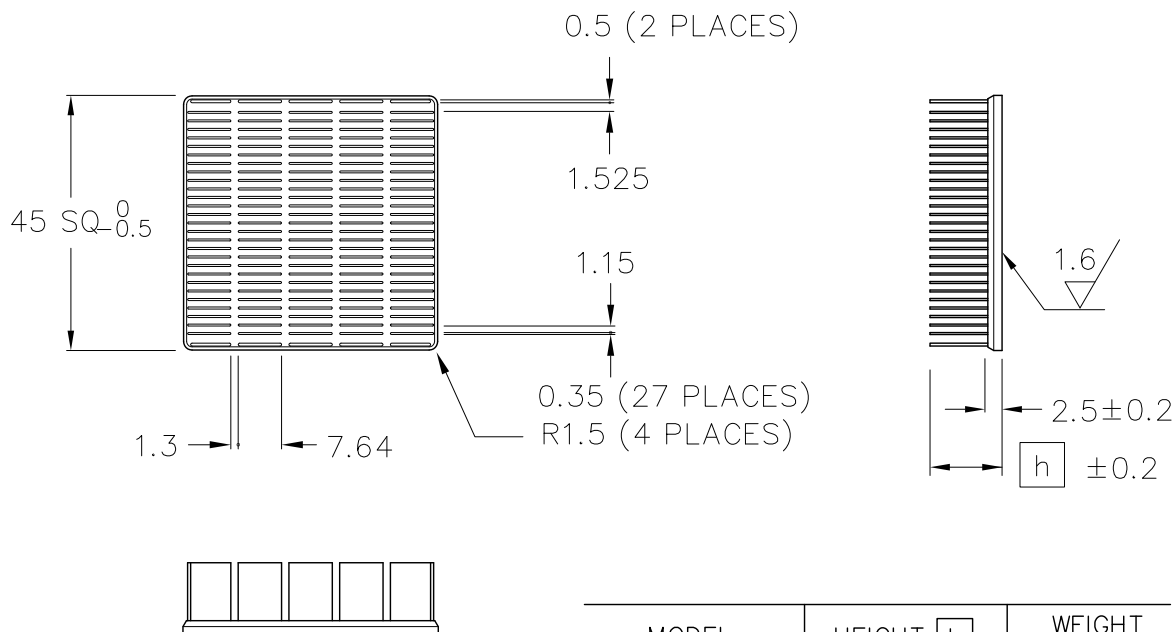
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**ALPHA**

Ultra - High Performance Heat Sink

**Z45**

DIM



HEAT SINK

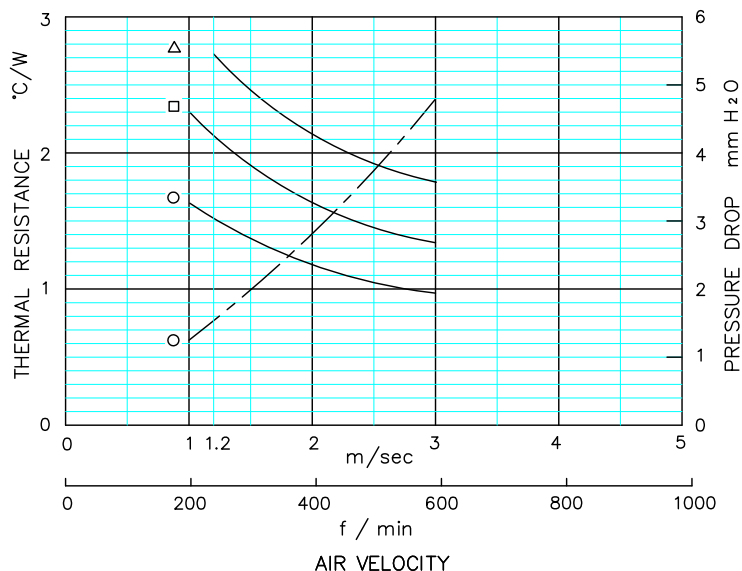
MATERIAL : A 6063

FINISH : BLACK ANODIZE

| MODEL     | HEIGHT [h] | WEIGHT (grams) |
|-----------|------------|----------------|
| Z45-6.3B  | 6.3        | 17.5           |
| Z45-9.5B  | 9.5        | 21.5           |
| Z45-12.7B | 12.7       | 25.5           |

Dimensions : mm

DATA



● Thermal Resistance ( Ducted )

( Solid Line — )

● Pressure Drop

( Center Line - - - )

Δ Z45-6.3B

□ Z45-9.5B

○ Z45-12.7B

■ Based on Alpha's Standard Test Procedure. (Refer to page marked Technical Information.)  
 Dummy Heater Size : □ 12.7(mm)

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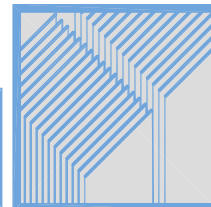
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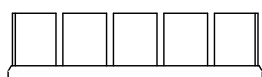
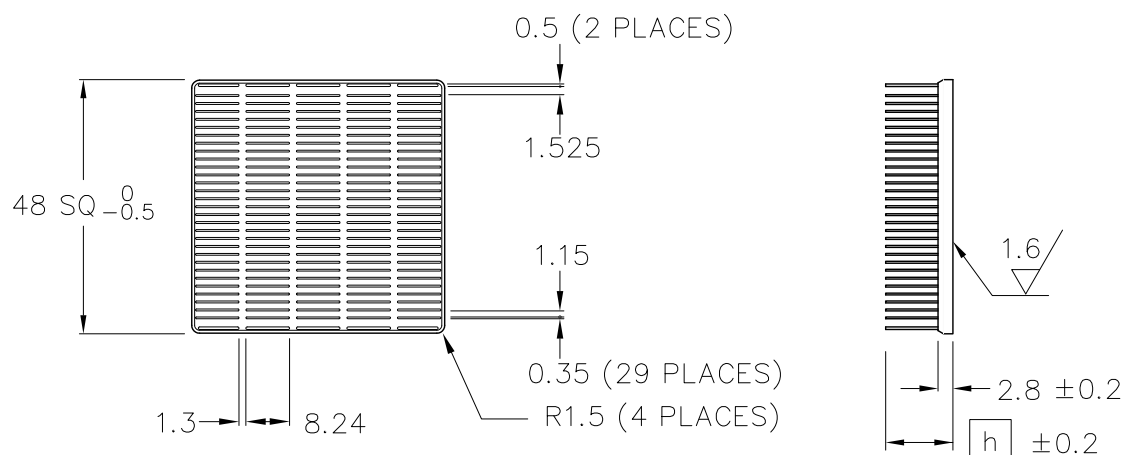
URL : <http://www.alphanovatech.com>

**ALPHA**

Ultra - High Performance Heat Sink

**Z48**

DIM



HEAT SINK

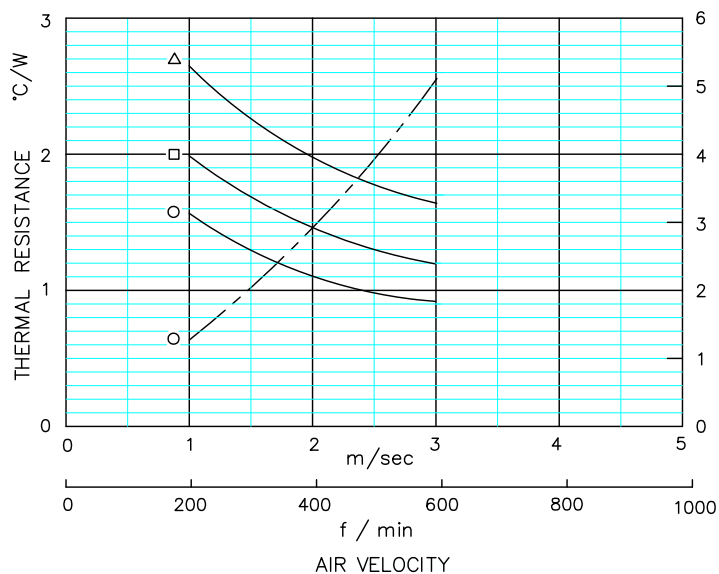
MATERIAL : A 6063

FINISH : BLACK ANODIZE

| MODEL     | HEIGHT $h$ | WEIGHT (grams) |
|-----------|------------|----------------|
| Z48-6.3B  | 6.3        | 21.5           |
| Z48-9.5B  | 9.5        | 25.5           |
| Z48-12.7B | 12.7       | 29.5           |

Dimensions : mm

DATA



● Thermal Resistance ( Ducted )

( Solid Line — )

● Pressure Drop

( Center Line - - - )

Δ Z48-6.3B

□ Z48-9.5B

○ Z48-12.7B

■ Based on Alpha's Standard Test Procedure. (Refer to page marked Technical Information.)  
 Dummy Heater Size : □ 12.7(mm)

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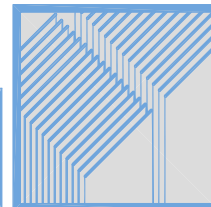
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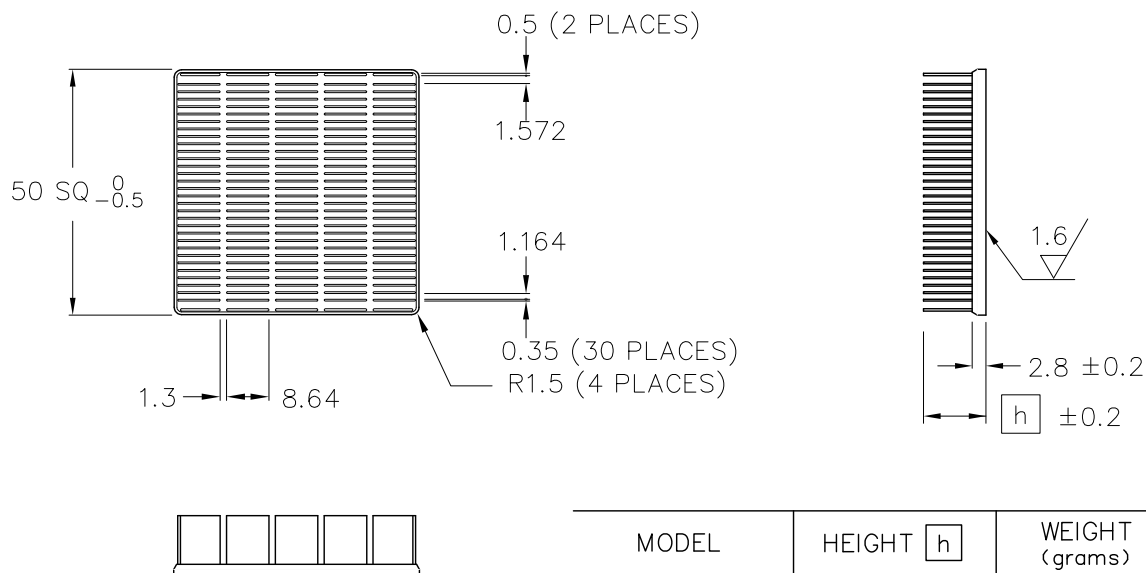
URL : <http://www.alphanovatech.com>

**ALPHA**

Ultra - High Performance Heat Sink

**Z50**

DIM

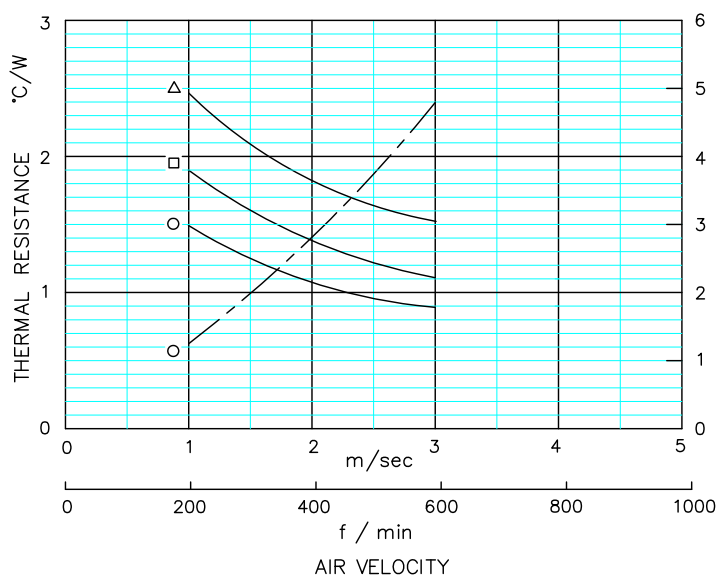


HEAT SINK  
 MATERIAL : A 6063  
 FINISH : BLACK ANODIZE

| MODEL     | HEIGHT $h$ | WEIGHT (grams) |
|-----------|------------|----------------|
| Z50-6.3B  | 6.3        | 22.5           |
| Z50-9.5B  | 9.5        | 27.0           |
| Z50-12.7B | 12.7       | 31.5           |

Dimensions : mm

DATA



Based on Alpha's Standard Test Procedure. (Refer to page marked Technical Information.)  
 Dummy Heater Size : □ 12.7(mm)

Alpha Company Ltd.

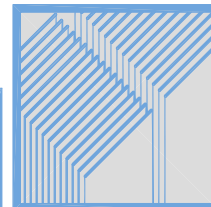
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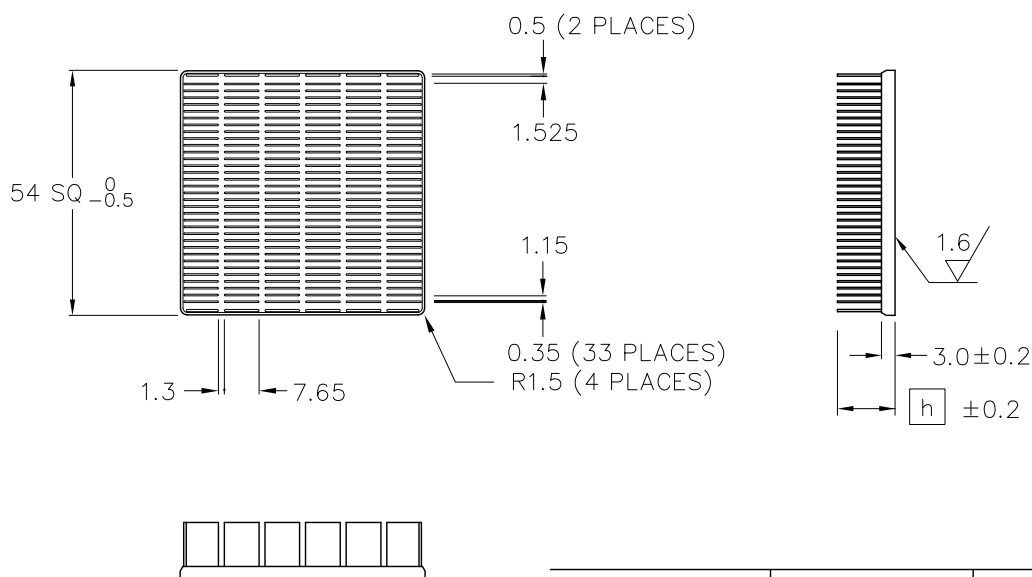
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**ALPHA**

Ultra - High Performance Heat Sink

**Z54**

DIM



HEAT SINK

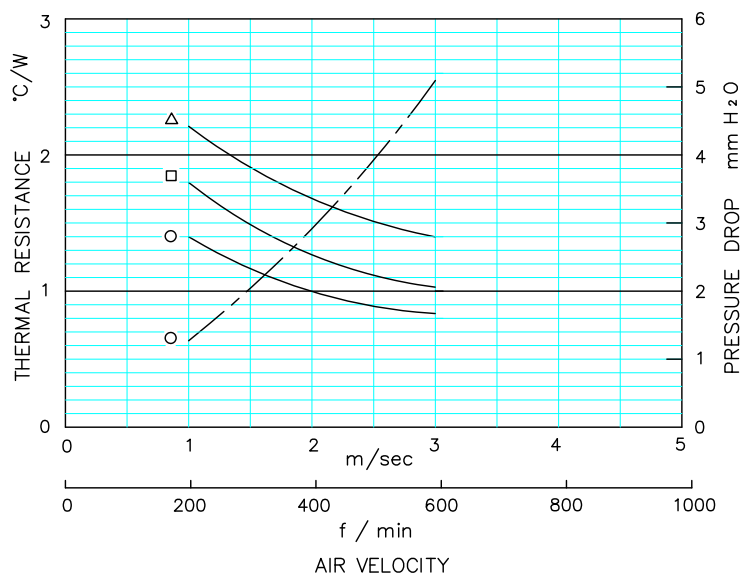
MATERIAL : A 6063

FINISH : BLACK ANODIZE

| MODEL     | HEIGHT $h$ | WEIGHT (grams) |
|-----------|------------|----------------|
| Z54-6.3B  | 6.3        | 28             |
| Z54-9.5B  | 9.5        | 33             |
| Z54-12.7B | 12.7       | 38             |

Dimensions : mm

DATA



● Thermal Resistance ( Ducted )  
( Solid Line )  
● Pressure Drop  
( Center Line )

△ Z54-6.3B  
□ Z54-9.5B  
○ Z54-12.7B

■ Based on Alpha's Standard Test Procedure. (Refer to page marked Technical Information.)  
Dummy Heater Size : □ 12.7(mm)

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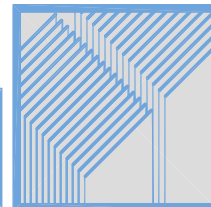
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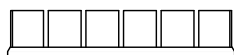
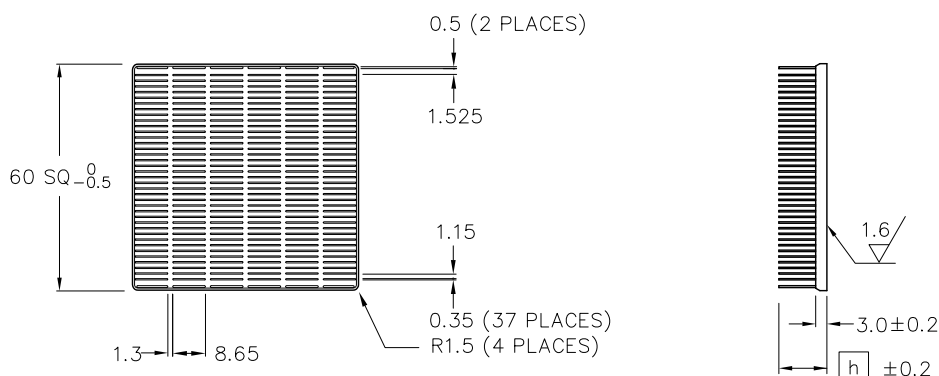
URL : <http://www.alphanovatech.com>

**ALPHA**

Ultra - High Performance Heat Sink

**Z60**

DIM



HEAT SINK

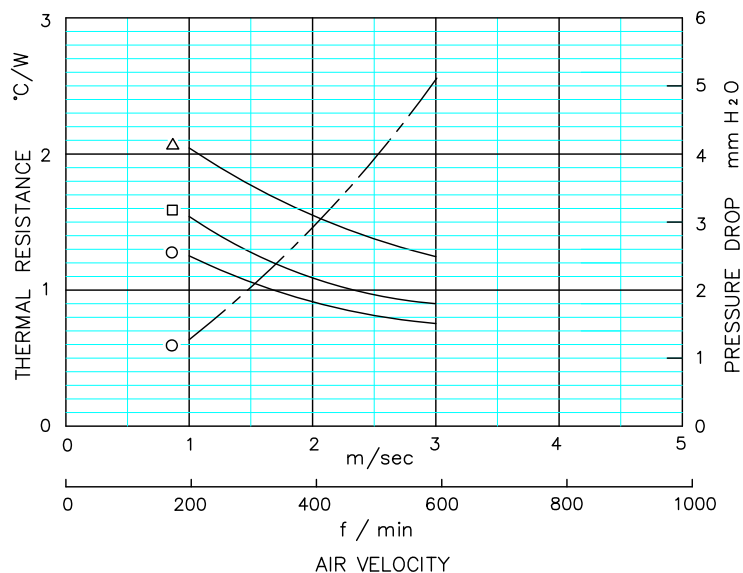
MATERIAL : A 6063

FINISH : BLACK ANODIZE

| MODEL     | HEIGHT $h$ | WEIGHT (grams) |
|-----------|------------|----------------|
| Z60-6.3B  | 6.3        | 35.5           |
| Z60-9.5B  | 9.5        | 41.5           |
| Z60-12.7B | 12.7       | 47.5           |

Dimensions : mm

DATA



● Thermal Resistance ( Ducted )

( Solid Line — )

● Pressure Drop

( Center Line - - - )

Δ Z60-6.3B

□ Z60-9.5B

○ Z60-12.7B

■ Based on Alpha's Standard Test Procedure. (Refer to page marked Technical Information.)  
 Dummy Heater Size : □ 12.7(mm)

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