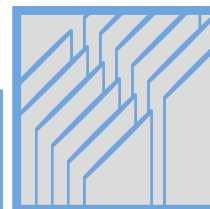


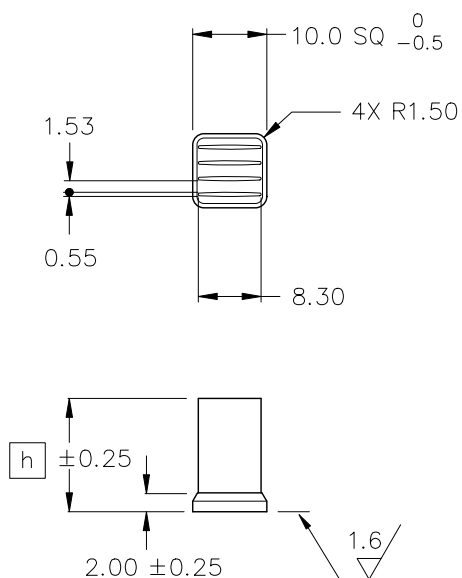
UB Series

Low Pressure Drop and
Low Thermal Resistance Heat Sink

ALPHA

ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB10**

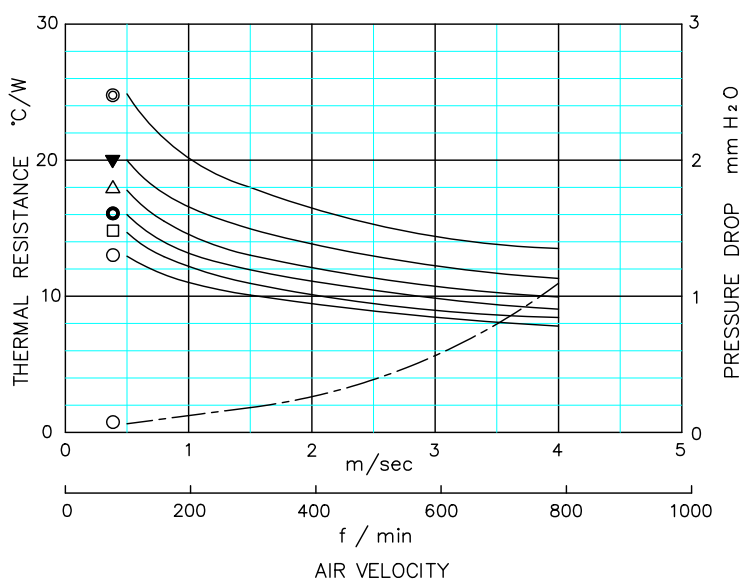
DIM



MODEL	HEIGHT h	WEIGHT (grams)
UB10-5B	5	0.6
UB10-7B	7	0.7
UB10-10B	10	0.8
UB10-12B	12	0.9
UB10-15B	15	1.0
UB10-20B	20	1.2

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ⊙ UB10-5B
- ▼ UB10-7B
- △ UB10-10B
- UB10-12B
- UB10-15B
- UB10-20B

● DUCTED CONDITION
 DUMMY HEATER SIZE: 8.0 SQ
 THERMAL RESISTANCE ———
 PRESURE DROP - - - -

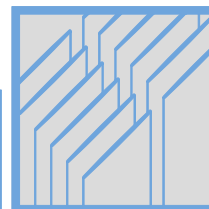
■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

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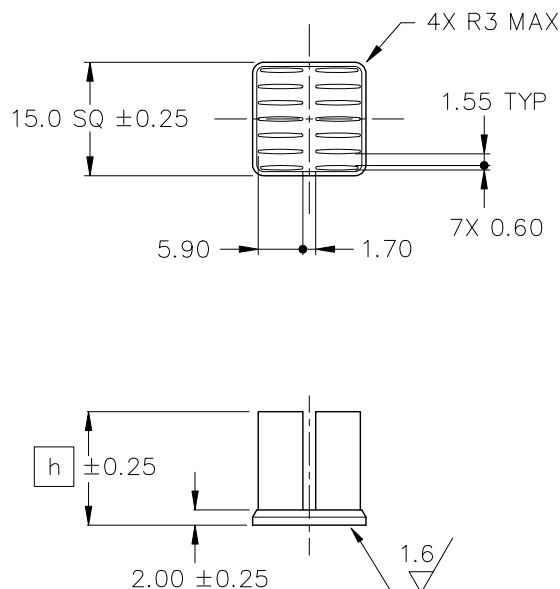
256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB15**

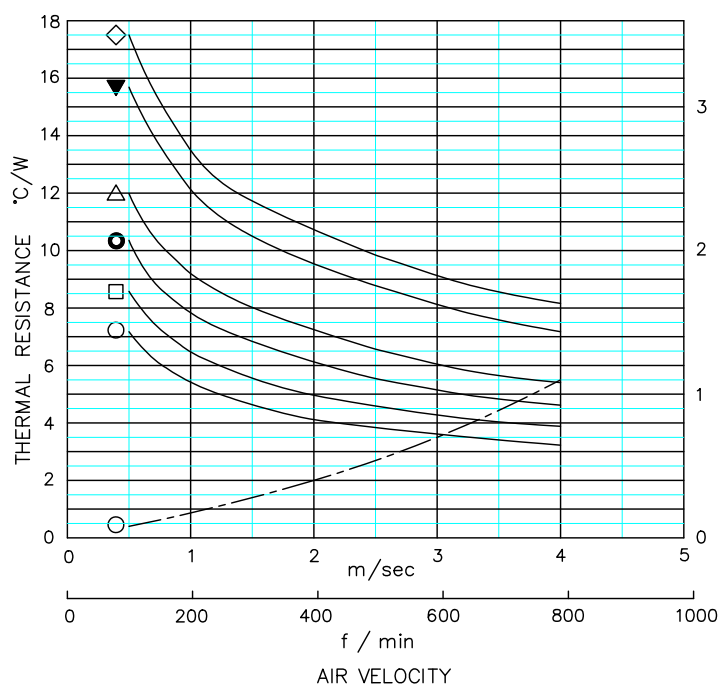
DIM



MODEL	HEIGHT h	WEIGHT (grams)
UB15-6B	6	1.6
UB15-7B	7	1.7
UB15-10B	10	2.1
UB15-12B	12	2.3
UB15-15B	15	2.6
UB15-20B	20	3.2

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ◇ UB15-6B
- ▼ UB15-7B
- △ UB15-10B
- UB15-12B
- UB15-15B
- UB15-20B

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

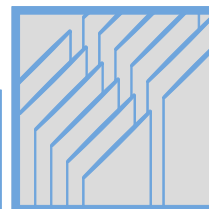
■ BASED ON ALPHA'S STANDARD TEST
 PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

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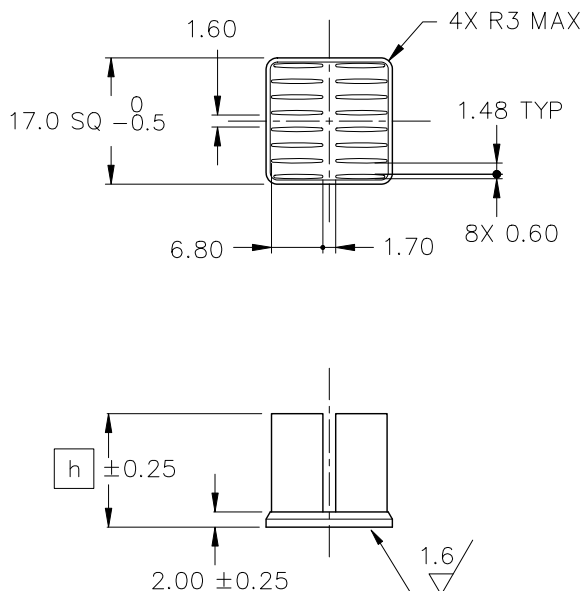
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB17**

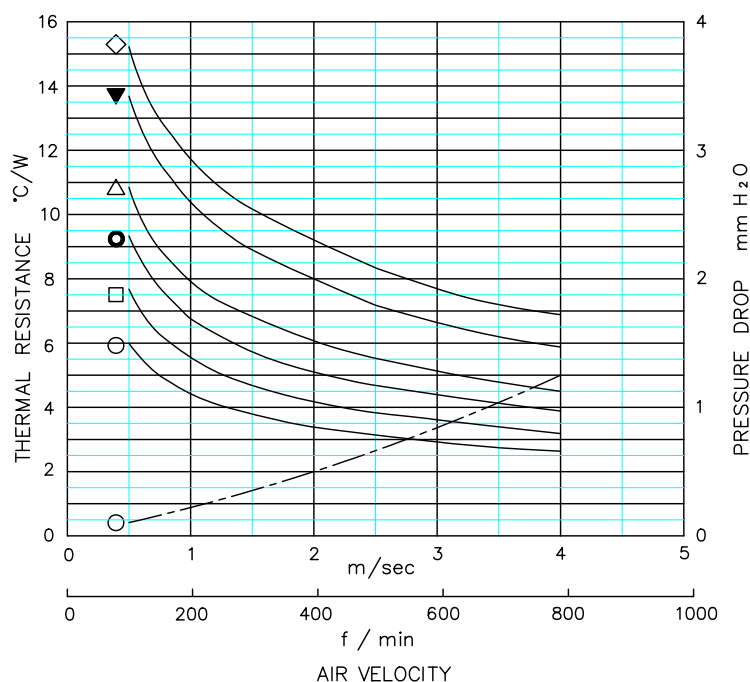
DIM



MODEL	HEIGHT h	WEIGHT (grams)
UB17-6B	6	2.1
UB17-7B	7	2.3
UB17-10B	10	2.7
UB17-12B	12	3.0
UB17-15B	15	3.4
UB17-20B	20	4.2

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ◇ UB17-6B
- ▼ UB17-7B
- △ UB17-10B
- UB17-12B
- UB17-15B
- UB17-20B

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

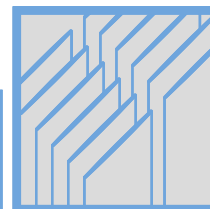
■ BASED ON ALPHA'S STANDARD TEST
 PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

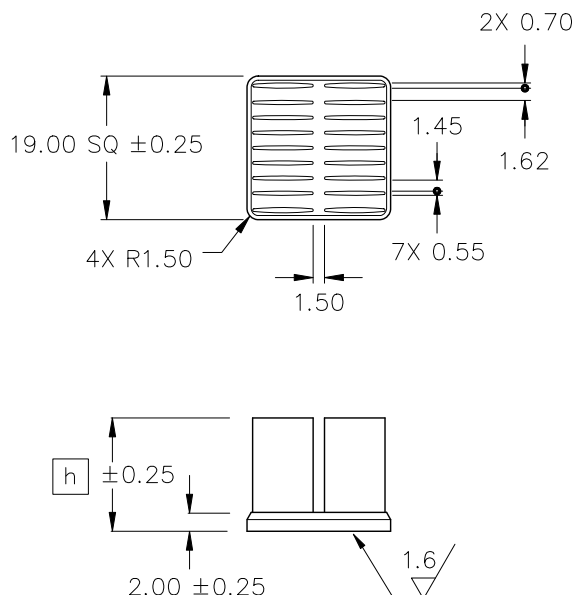
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB19**

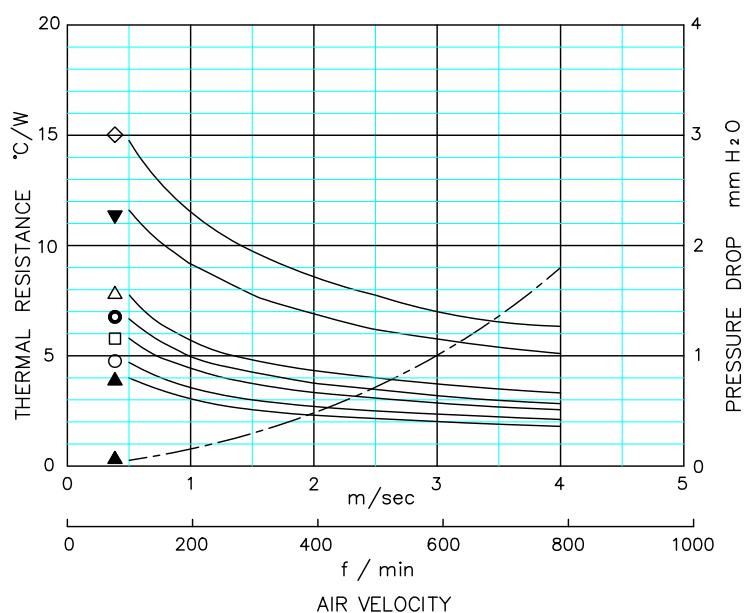
DIM



MODEL	HEIGHT h	WEIGHT (grams)
UB19-6B	6	2.6
UB19-7B	7	2.8
UB19-10B	10	3.3
UB19-12B	12	3.7
UB19-15B	15	4.2
UB19-20B	20	5.1
UB19-25B	25	6.0

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ◇ UB19-6B
- ▼ UB19-7B
- △ UB19-10B
- UB19-12B
- UB19-15B
- UB19-20B
- ▲ UB19-25B

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

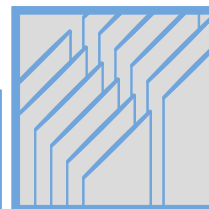
■ BASED ON ALPHA'S STANDARD TEST
 PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

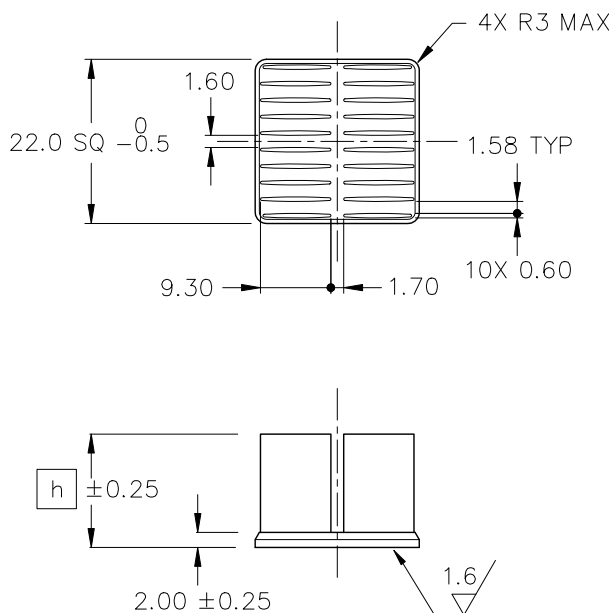
256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB22**

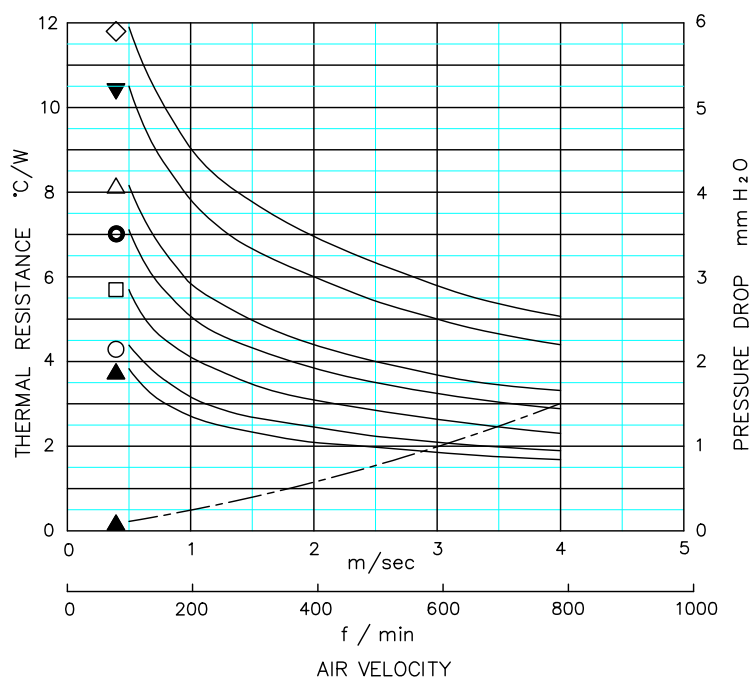
DIM



MODEL	HEIGHT h	WEIGHT (grams)
UB22-6B	6	3.6
UB22-7B	7	3.8
UB22-10B	10	4.6
UB22-12B	12	5.1
UB22-15B	15	5.9
UB22-20B	20	7.2
UB22-25B	25	8.4

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ◇ UB22-6B
- ▼ UB22-7B
- △ UB22-10B
- UB22-12B
- UB22-15B
- UB22-20B
- ▲ UB22-25B

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

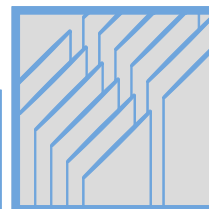
■ BASED ON ALPHA'S STANDARD TEST
 PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

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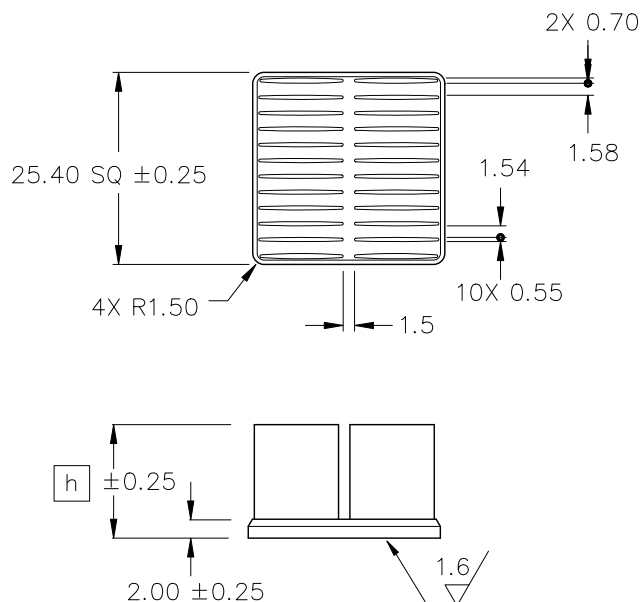
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB25**

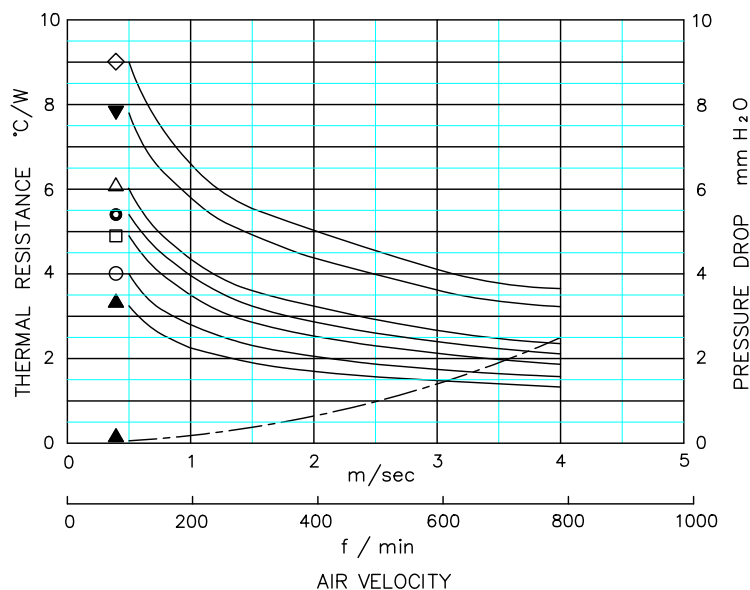
DIM



MODEL	HEIGHT h	WEIGHT (grams)
UB25-6B	6	4.8
UB25-7B	7	5.2
UB25-10B	10	6.4
UB25-12B	12	7.1
UB25-15B	15	8.1
UB25-20B	20	9.6
UB25-25B	25	11.2

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ◇ UB25-6B
- ▼ UB25-7B
- △ UB25-10B
- UB25-12B
- UB25-15B
- UB25-20B
- ▲ UB25-25B

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

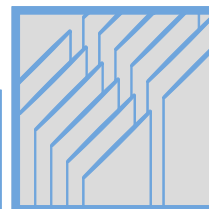
■ BASED ON ALPHA'S STANDARD TEST
 PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

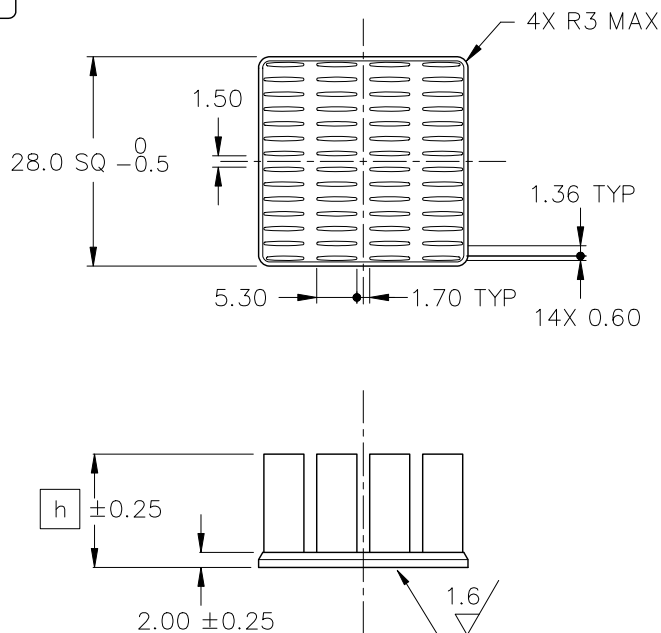
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB28**

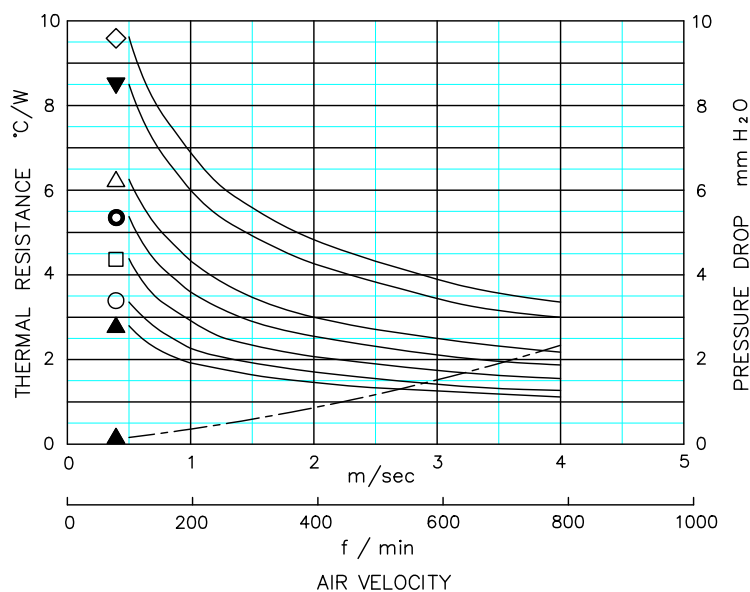
DIM



MODEL	HEIGHT h	WEIGHT (grams)
UB28-6B	6	5.5
UB28-7B	7	5.9
UB28-10B	10	7.1
UB28-12B	12	7.9
UB28-15B	15	9.1
UB28-20B	20	11.1
UB28-25B	25	13.1

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ◇ UB28-6B
- ▼ UB28-7B
- △ UB28-10B
- UB28-12B
- UB28-15B
- UB28-20B
- ▲ UB28-25B

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

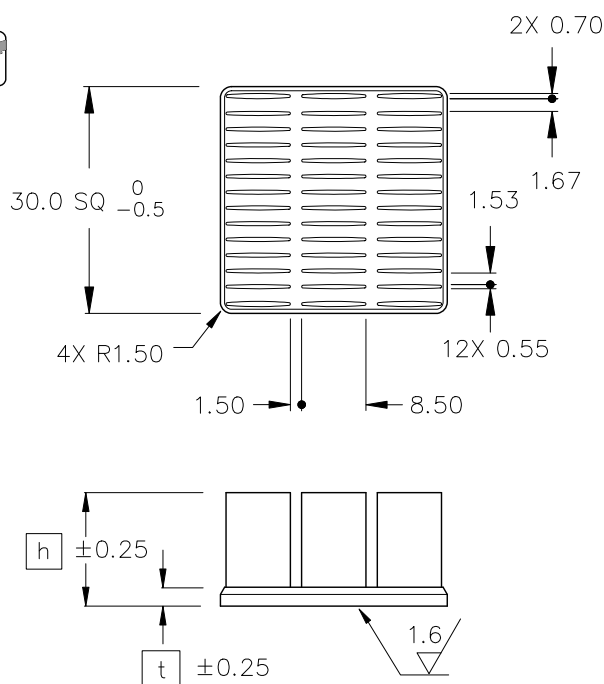
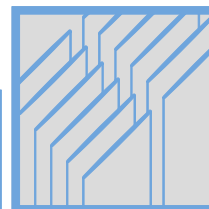
■ BASED ON ALPHA'S STANDARD TEST
 PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

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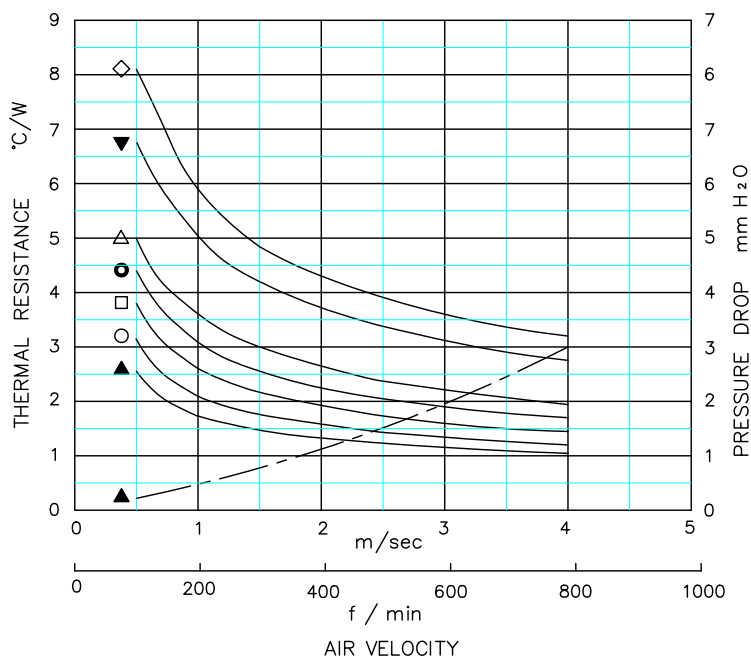
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB30**

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB30-6B	6	2.0	6.8
UB30-7B	7		7.3
UB30-10B	10	2.5	9.0
UB30-12B	12		10.0
UB30-15B	15		11.5
UB30-20B	20		14.0
UB30-25B	25		16.5

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm



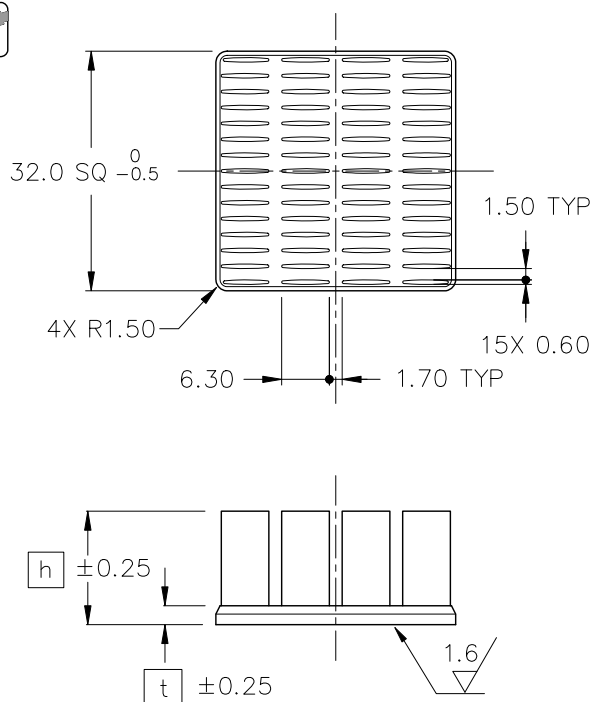
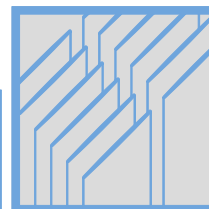
■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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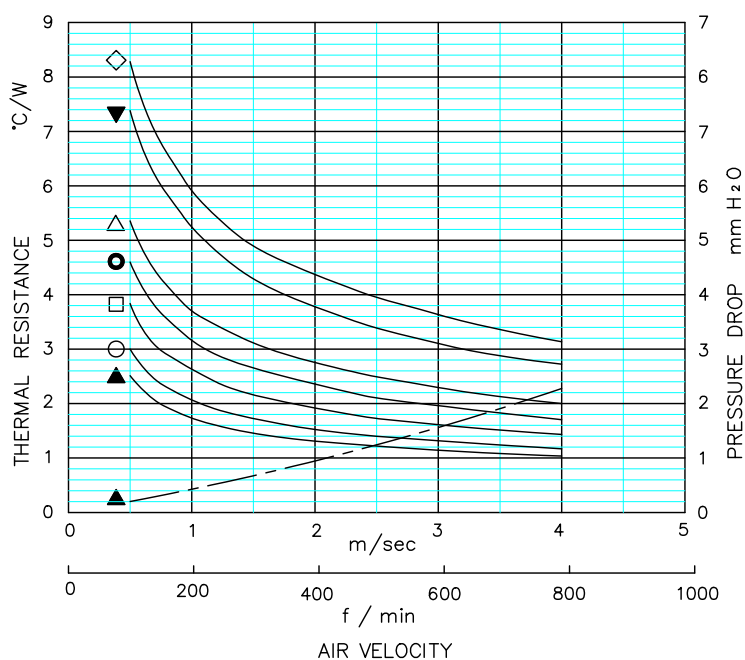
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB32**

MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
UB32-6B	6	2.0	7.4
UB32-7B	7		7.9
UB32-10B	10	2.5	10.5
UB32-12B	12		11.6
UB32-15B	15		13.1
UB32-20B	20		15.7
UB32-25B	25		18.2

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm



- ◇ UB32-6B
- ▼ UB32-7B
- △ UB32-10B
- UB32-12B
- UB32-15B
- UB32-20B
- ▲ UB32-25B

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

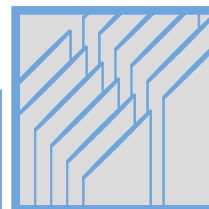
■ BASED ON ALPHA'S STANDARD TEST
 PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

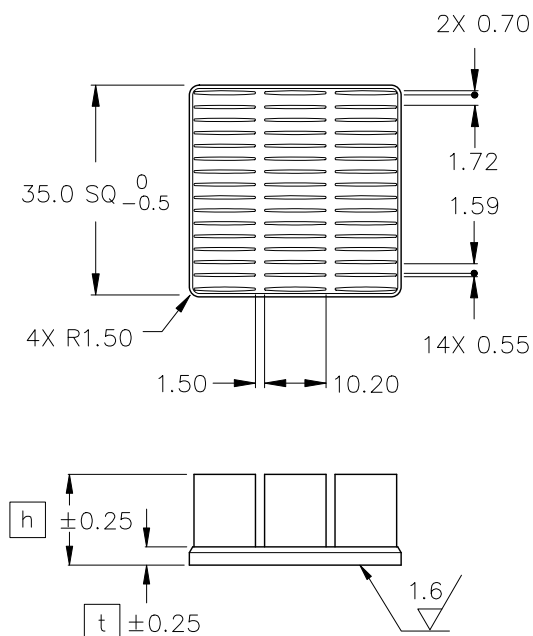
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB35**

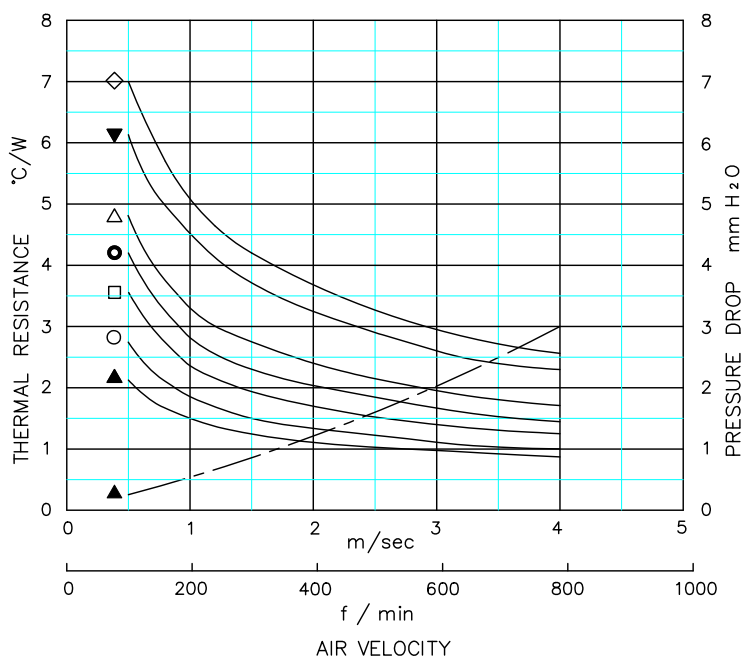
DIM



MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
UB35-6B	6	2.0	9.2
UB35-7B	7		9.9
UB35-10B	10	3.0	13.5
UB35-12B	12		14.9
UB35-15B	15		17.0
UB35-20B	20		20.5
UB35-25B	25		24.0

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



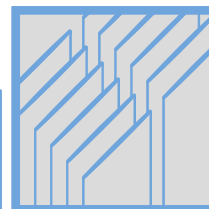
BASED ON ALPHA'S STANDARD TEST PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

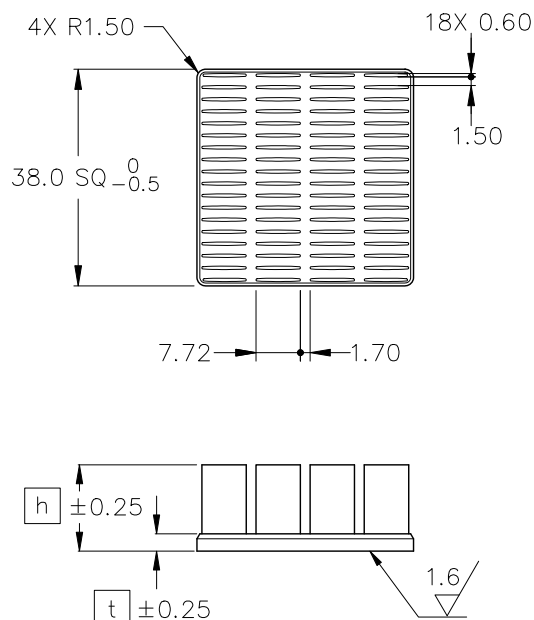
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB38**

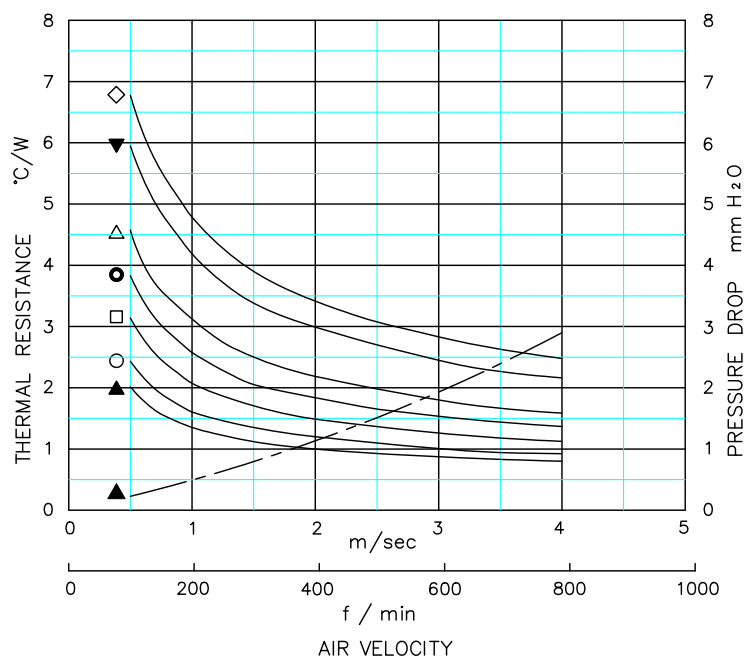
DIM



MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB38-6B	6	2.0	10.8
UB38-7B	7		11.6
UB38-10B	10	3.0	17.0
UB38-12B	12		18.6
UB38-15B	15		20.9
UB38-20B	20		24.8
UB38-25B	25		28.7

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



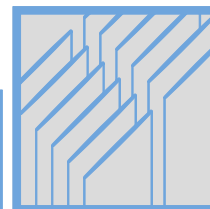
■ BASED ON ALPHA'S STANDARD TEST
 PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

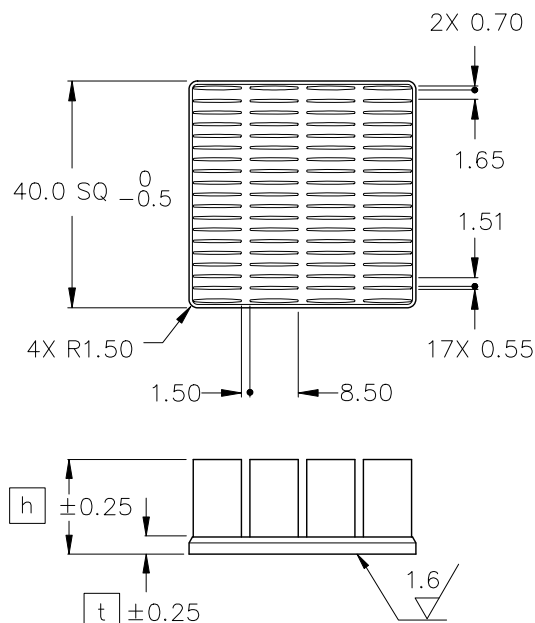
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB40**

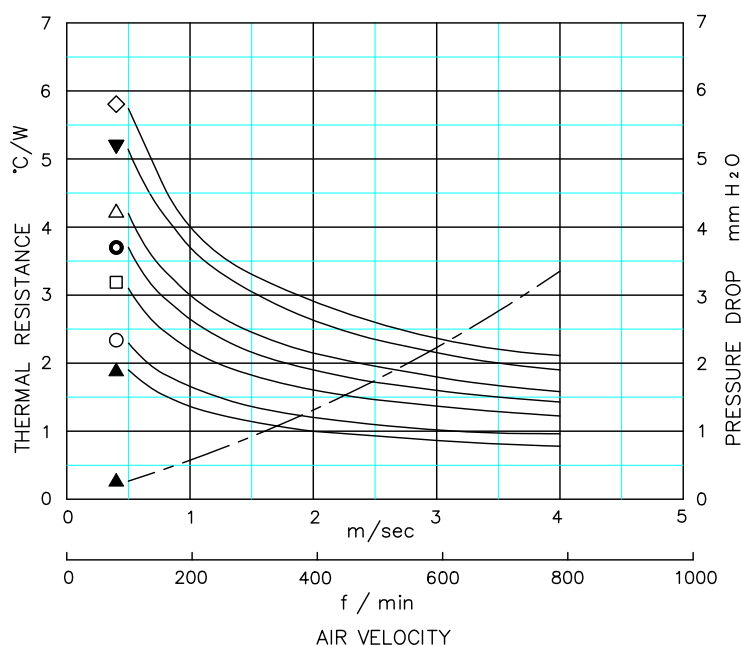
DIM



MODEL	HEIGHT $\begin{smallmatrix} h \end{smallmatrix}$	THICKNESS $\begin{smallmatrix} t \end{smallmatrix}$	WEIGHT (grams)
UB40-6B	6	2.0	12.0
UB40-7B	7		12.9
UB40-10B	10	3.0	17.8
UB40-12B	12		19.7
UB40-15B	15		22.5
UB40-20B	20		27.3
UB40-25B	25		32.0

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ◇ UB40-6B
- ▼ UB40-7B
- △ UB40-10B
- UB40-12B
- UB40-15B
- UB40-20B
- ▲ UB40-25B

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

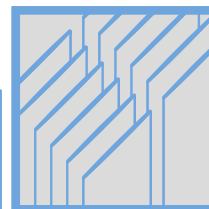
■ BASED ON ALPHA'S STANDARD TEST
 PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

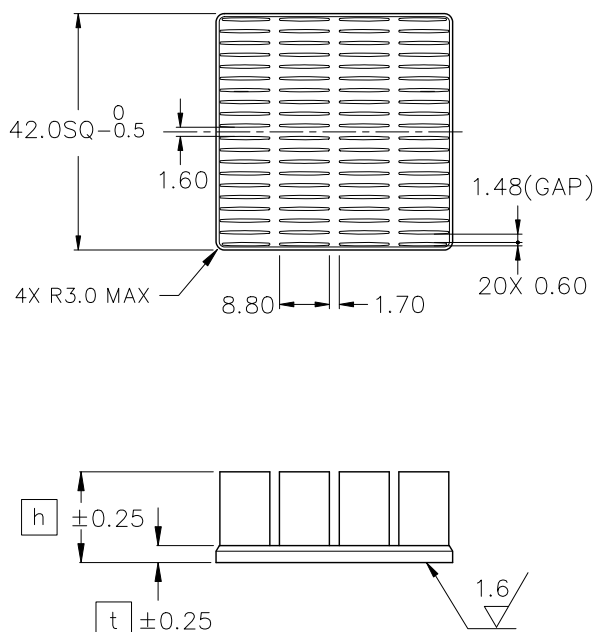
256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN
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 FAX +81(55)966 9192
 E mail : alpha@micforg.co.jp
 URL : <http://www.micforg.co.jp>

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

ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB42**

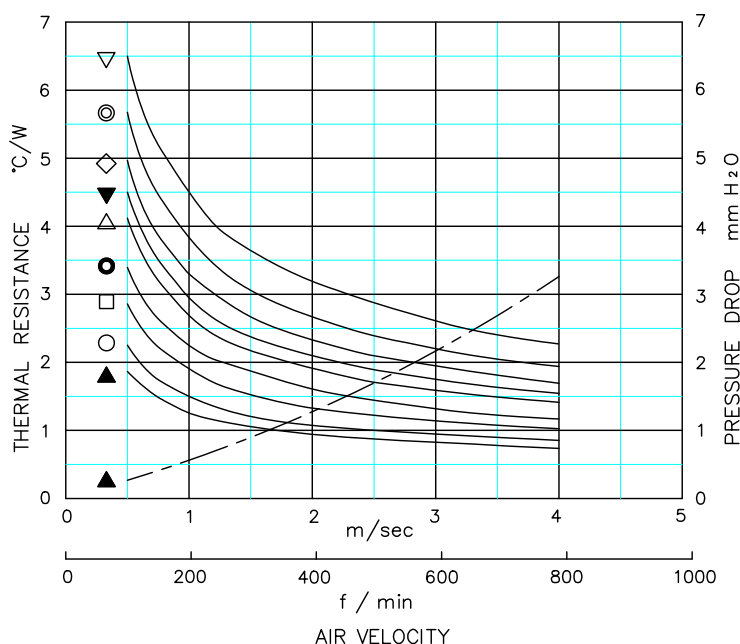
DIM



MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB42-6B	6	2.5	15.0
UB42-7B	7		15.9
UB42-8B	8		16.9
UB42-9B	9		17.9
UB42-10B	10	3.0	20.6
UB42-12B	12		22.6
UB42-15B	15		25.5
UB42-20B	20		30.3
UB42-25B	25		35.2

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ▽ UB42-6B
- ⊙ UB42-7B
- ◇ UB42-8B
- ▼ UB42-9B
- △ UB42-10B
- UB42-12B
- UB42-15B
- UB42-20B
- ▲ UB42-25B

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

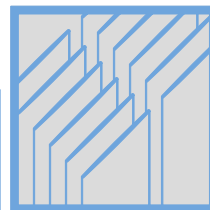
■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

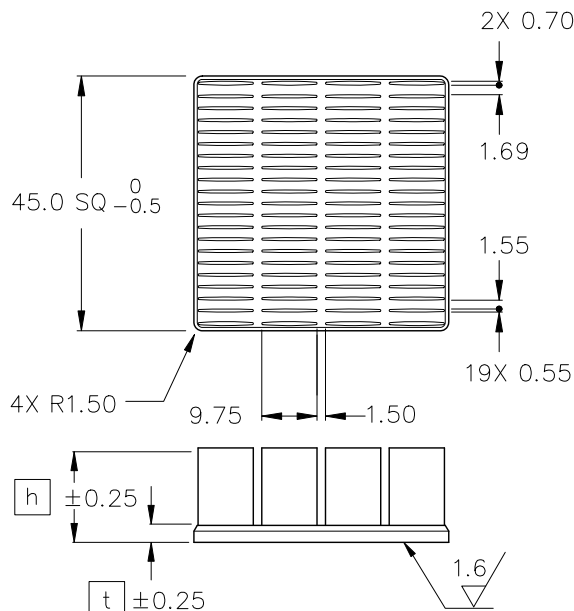
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB45**

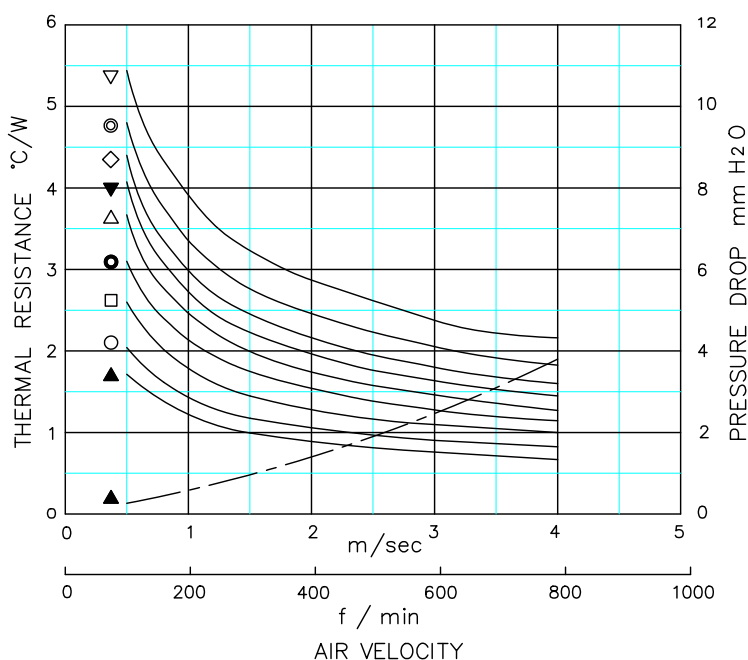
DIM



MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB45-6B	6	2.5	16.8
UB45-7B	7		18.0
UB45-8B	8		19.2
UB45-9B	9		20.4
UB45-10B	10	3.0	21.8
UB45-12B	12		24.3
UB45-15B	15		28.0
UB45-20B	20		34.3
UB45-25B	25		40.5

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ▽ UB45-6B
- ⊙ UB45-7B
- ◇ UB45-8B
- ▼ UB45-9B
- △ UB45-10B
- UB45-12B
- UB45-15B
- UB45-20B
- ▲ UB45-25B

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

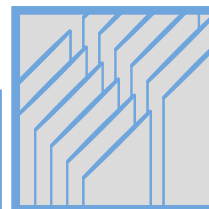
■ BASED ON ALPHA'S STANDARD TEST
 PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

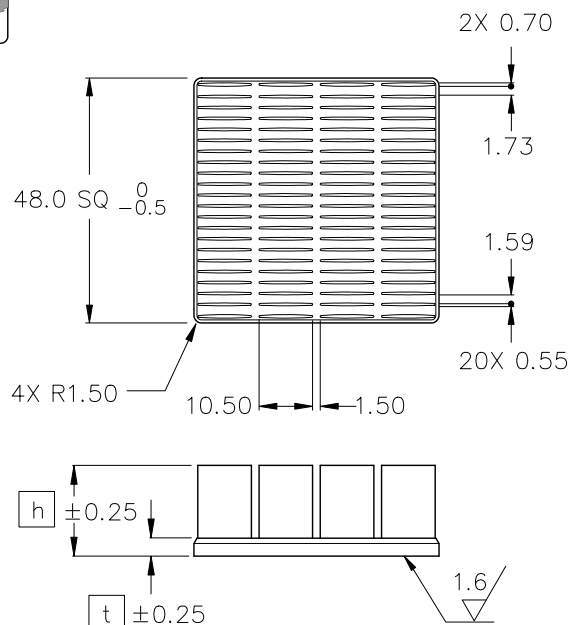
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB48**

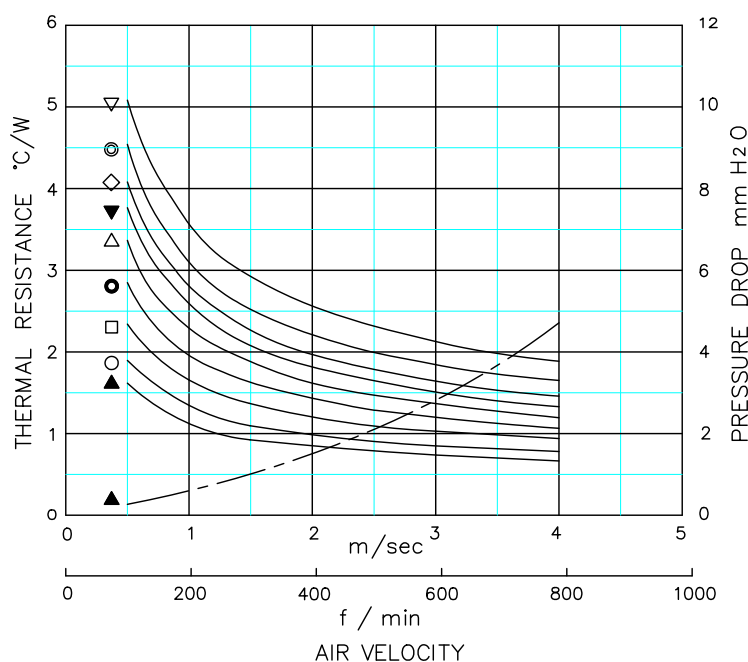
DIM



MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
UB48-6B	6	2.5	19.4
UB48-7B	7		20.5
UB48-8B	8		21.7
UB48-9B	9		22.8
UB48-10B	10	3.5	28.5
UB48-12B	12		31.1
UB48-15B	15		35.0
UB48-20B	20		41.5
UB48-25B	25		48.0

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ▽ UB48-6B
- ⊙ UB48-7B
- ◇ UB48-8B
- ▼ UB48-9B
- △ UB48-10B
- UB48-12B
- UB48-15B
- UB48-20B
- ▲ UB48-25B

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

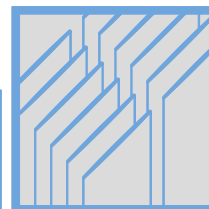
■ BASED ON ALPHA'S STANDARD TEST
 PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

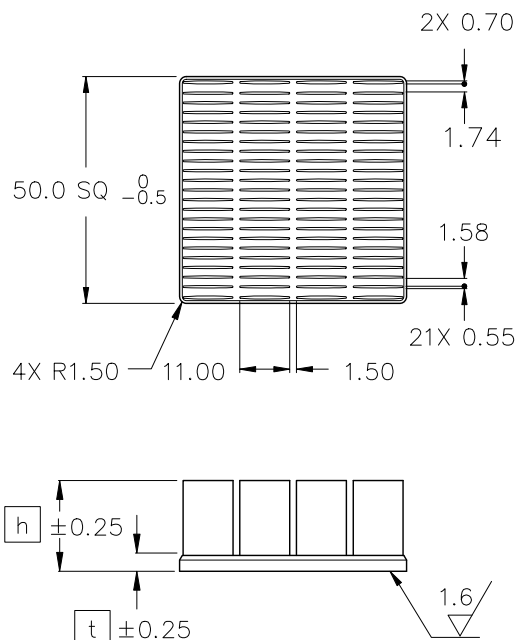
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB50**

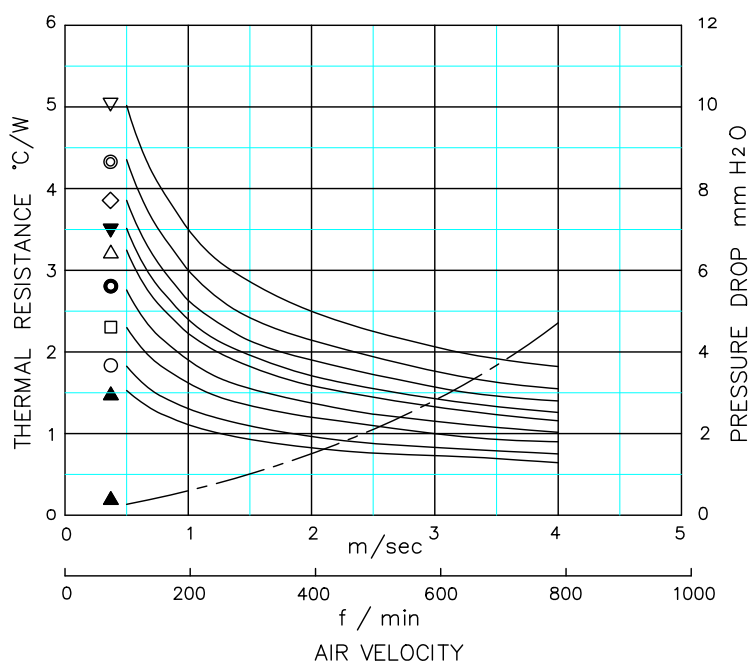
DIM



MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
UB50-6B	6	2.5	21.0
UB50-7B	7		22.3
UB50-8B	8		23.7
UB50-9B	9		25.0
UB50-10B	10	3.5	30.5
UB50-12B	12		34.6
UB50-15B	15		38.0
UB50-20B	20		45.5
UB50-25B	25		53.0

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ▽ UB50-6B
- ⊙ UB50-7B
- ◇ UB50-8B
- ▼ UB50-9B
- △ UB50-10B
- UB50-12B
- UB50-15B
- UB50-20B
- ▲ UB50-25B

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

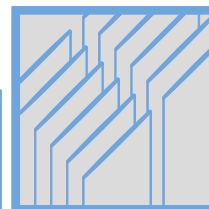
■ BASED ON ALPHA'S STANDARD TEST
 PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

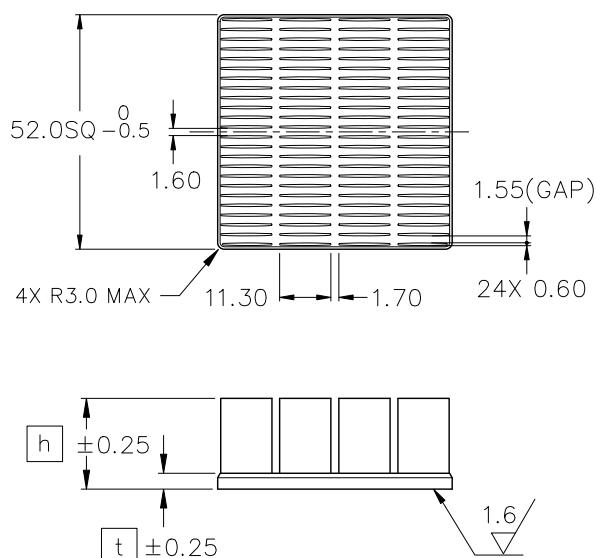
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB52**

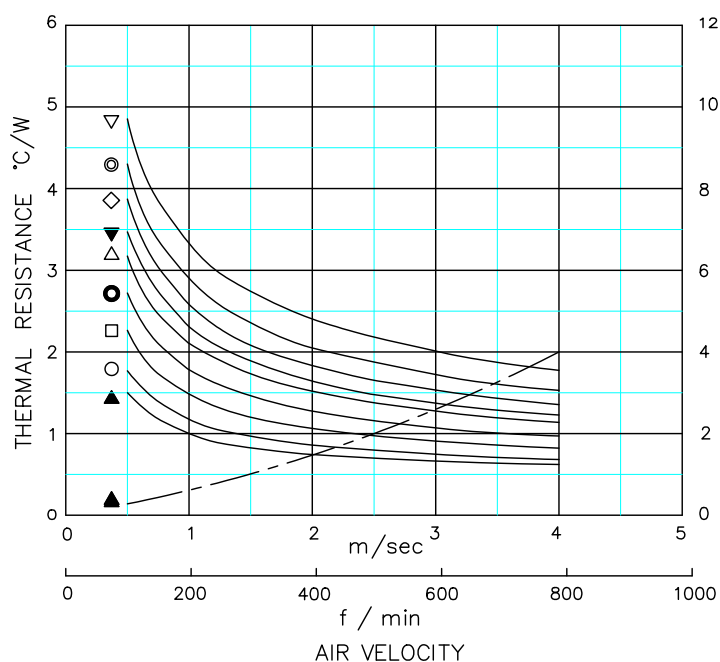
DIM



MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
UB52-6B	6	2.5	23.0
UB52-7B	7		24.5
UB52-8B	8		26.0
UB52-9B	9		27.5
UB52-10B	10	3.5	34.7
UB52-12B	12		37.7
UB52-15B	15		42.2
UB52-20B	20		49.7
UB52-25B	25		57.2

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ▽ UB52-6B
- ⊙ UB52-7B
- ◇ UB52-8B
- ▼ UB52-9B
- △ UB52-10B
- UB52-12B
- UB52-15B
- UB52-20B
- ▲ UB52-25B

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

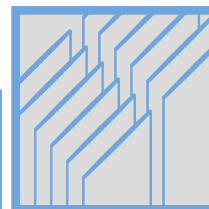
■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

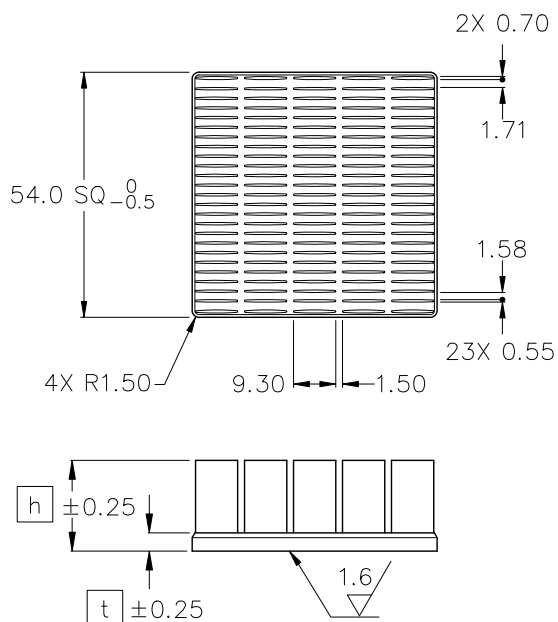
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB54**

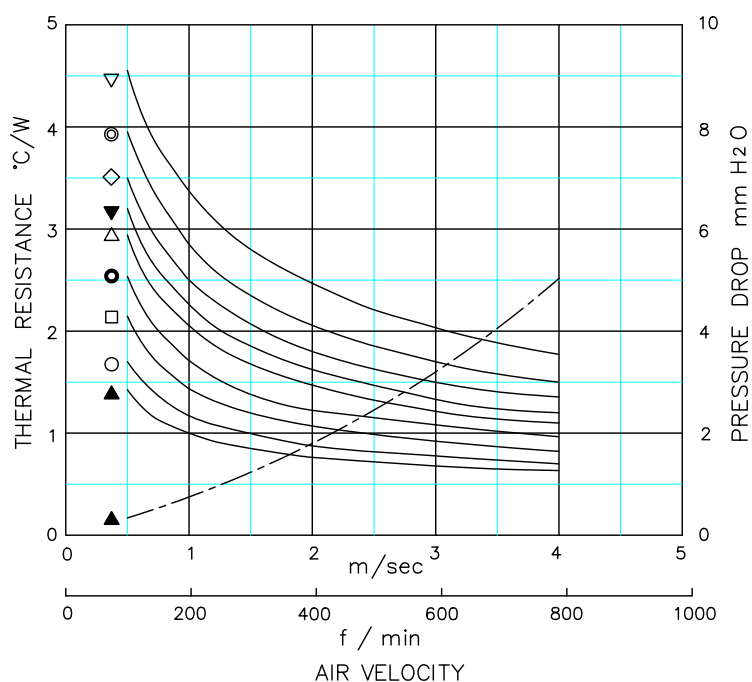
DIM



MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB54-6B	6	3	28.1
UB54-7B	7		29.6
UB54-8B	8		31.0
UB54-9B	9		32.4
UB54-10B	10	4	39.3
UB54-12B	12		42.6
UB54-15B	15		47.5
UB54-20B	20		55.8
UB54-25B	25		64.0

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ▽ UB54-6B
- ⊙ UB54-7B
- ◇ UB54-8B
- ▼ UB54-9B
- △ UB54-10B
- UB54-12B
- UB54-15B
- UB54-20B
- ▲ UB54-25B

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

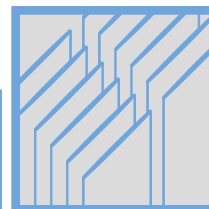
■ BASED ON ALPHA'S STANDARD TEST
 PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

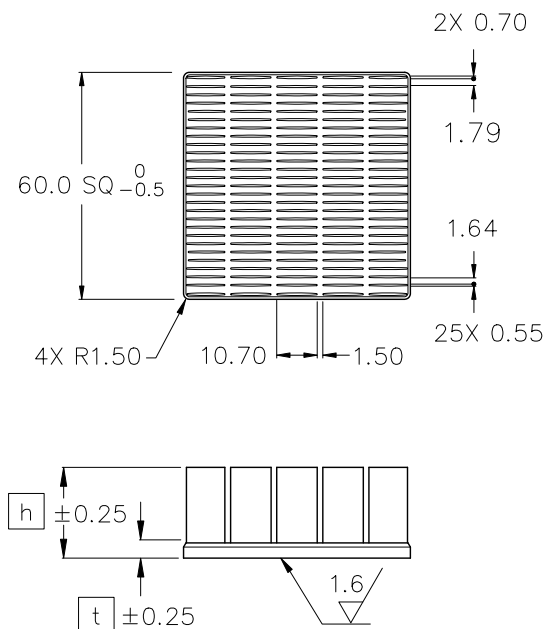
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB60**

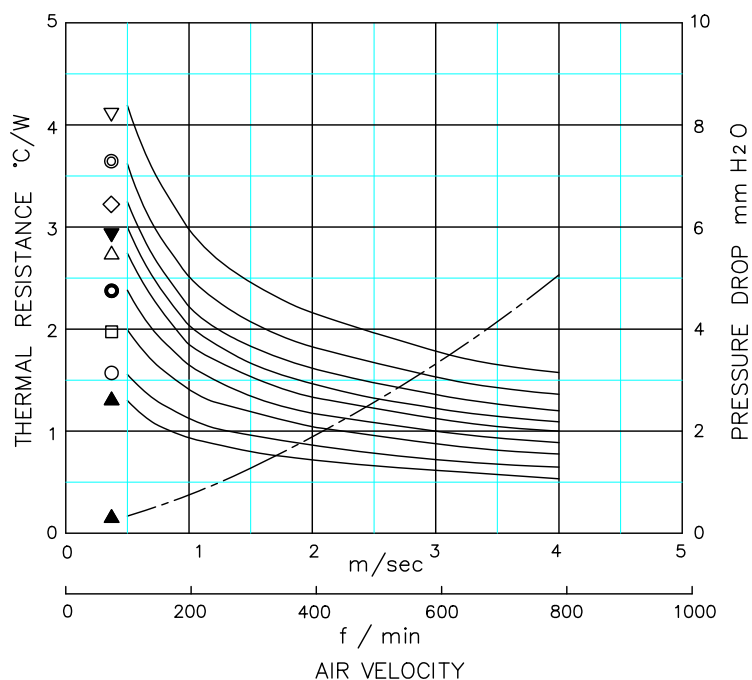
DIM



MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
UB60-6B	6	3	35.5
UB60-7B	7		37.3
UB60-8B	8		39.2
UB60-9B	9		41.0
UB60-10B	10	4	49.5
UB60-12B	12		52.9
UB60-15B	15		58.0
UB60-20B	20		66.5
UB60-25B	25		75.0

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ▽ UB60-6B
- ⊙ UB60-7B
- ◇ UB60-8B
- ▼ UB60-9B
- △ UB60-10B
- UB60-12B
- UB60-15B
- UB60-20B
- ▲ UB60-25B

● 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.

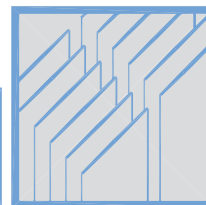
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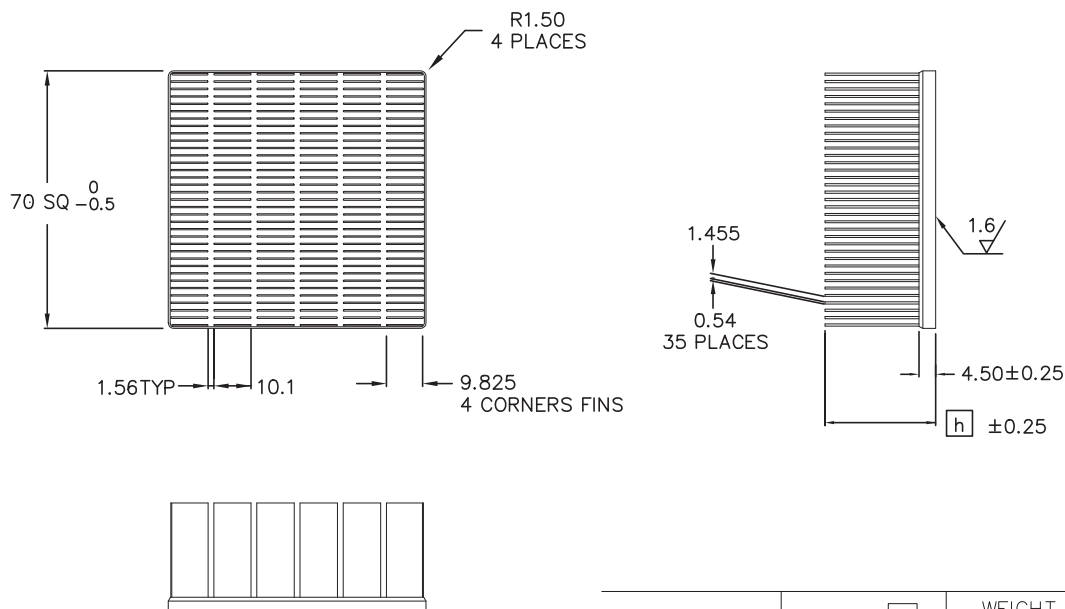
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ALPHA Low Pressure Drop and Low Thermal Resistance Heat Sink

UB70



DIM

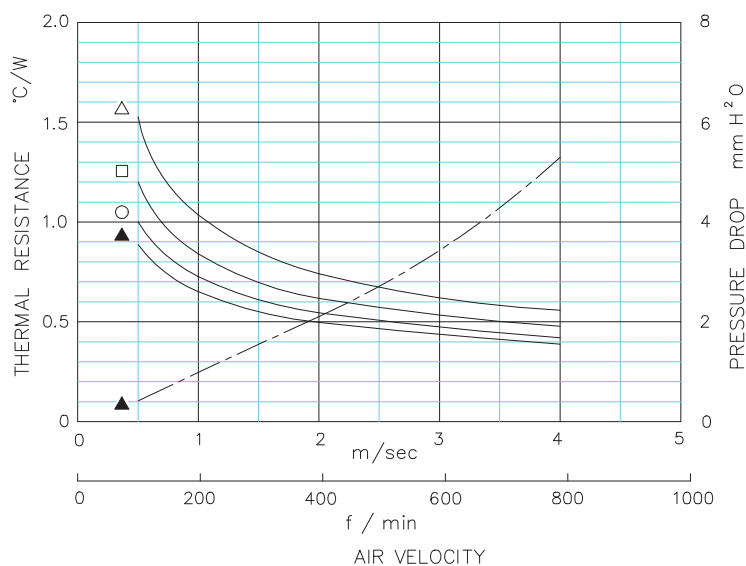


HEAT SINK
MATERIAL : A 6063
FINISH : BLACK ANODIZE

MODEL	HEIGHT [h]	WEIGHT (grams)
UB70-15B	15	86.3
UB70-20B	20	98.5
UB70-25B	25	110.7
UB70-30B	30	122.9

Dimensions : mm

DATA



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

△ UB70-15B
□ UB70-20B
○ UB70-25B
▲ UB70-30B

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

Alpha Company Ltd.

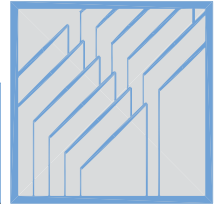
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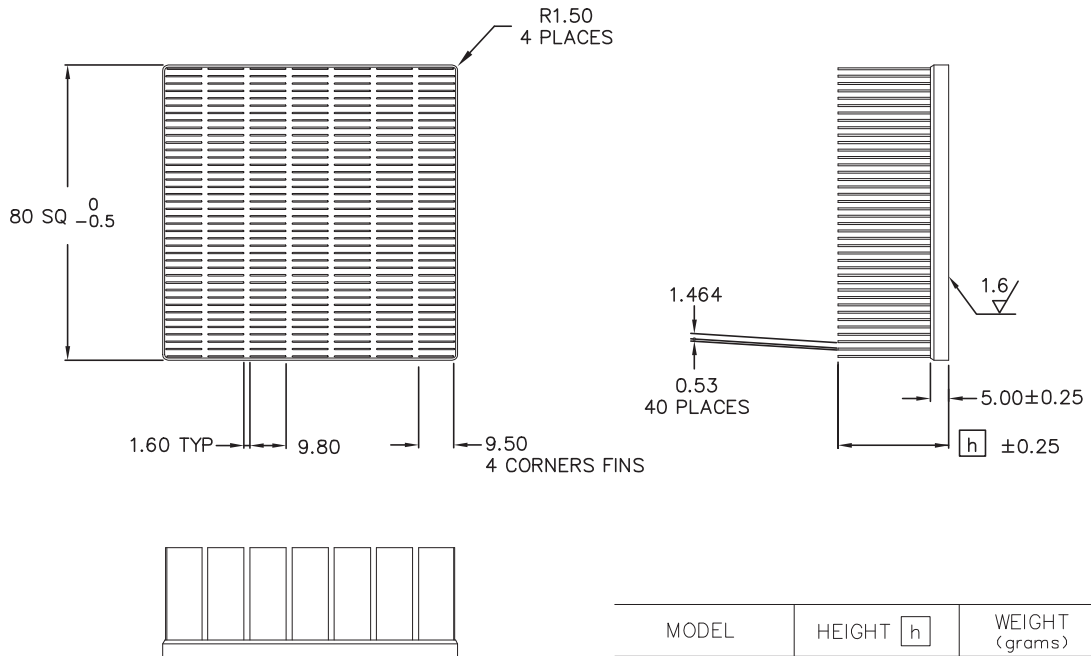
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ALPHA Low Pressure Drop and Low Thermal Resistance Heat Sink

UB80



DIM

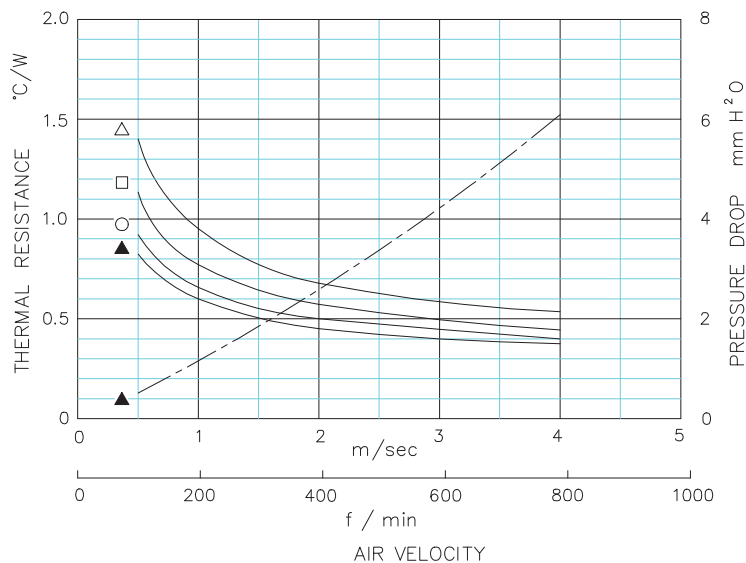


HEAT SINK
MATERIAL : A 6063
FINISH : BLACK ANODIZE

MODEL	HEIGHT [h]	WEIGHT (grams)
UB80-15B	15	120.8
UB80-20B	20	137.2
UB80-25B	25	153.6
UB80-30B	30	170.0

Dimensions : mm

DATA



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

△ UB80-15B
□ UB80-20B
○ UB80-25B
▲ UB80-30B

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

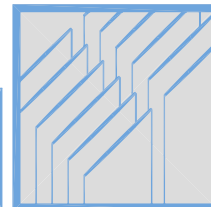
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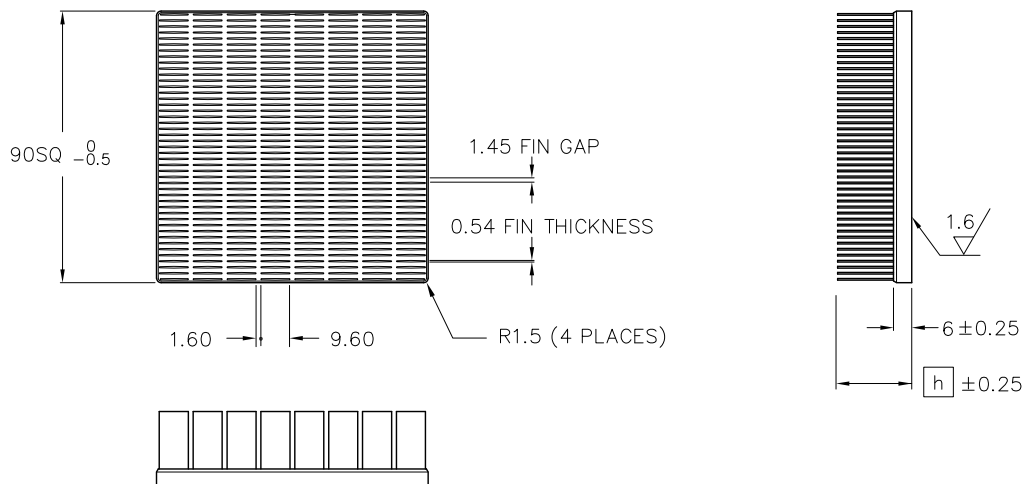
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ALPHA Low Pressure Drop and Low Thermal Resistance Heat Sink UB90



DIM

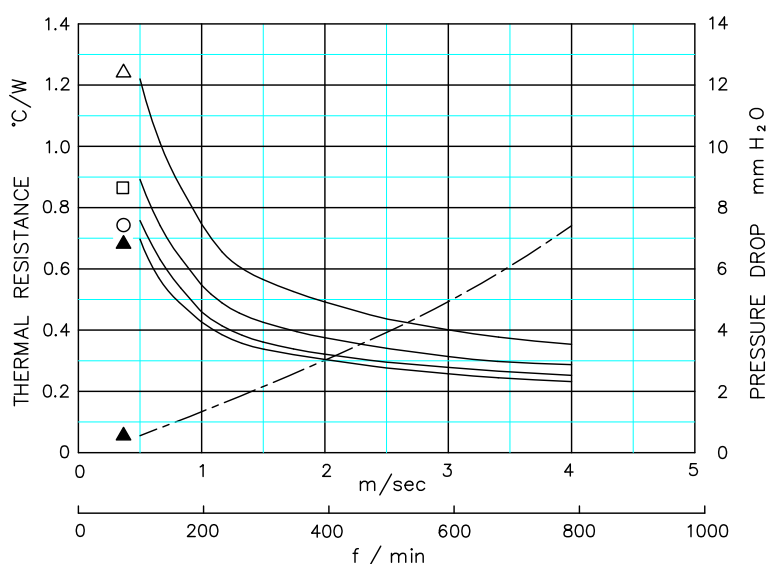


HEAT SINK
MATERIAL : A 6063
FINISH : BLACK ANODIZE

MODEL	HEIGHT h	WEIGHT (grams)
UB90-15B	15	169
UB90-20B	20	191
UB90-25B	25	213
UB90-30B	30	235

Dimensions : mm

DATA



- △ UB90-15B
- UB90-20B
- UB90-25B
- ▲ UB90-30B

● 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.

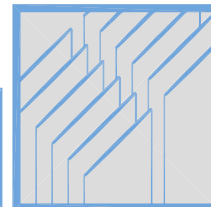
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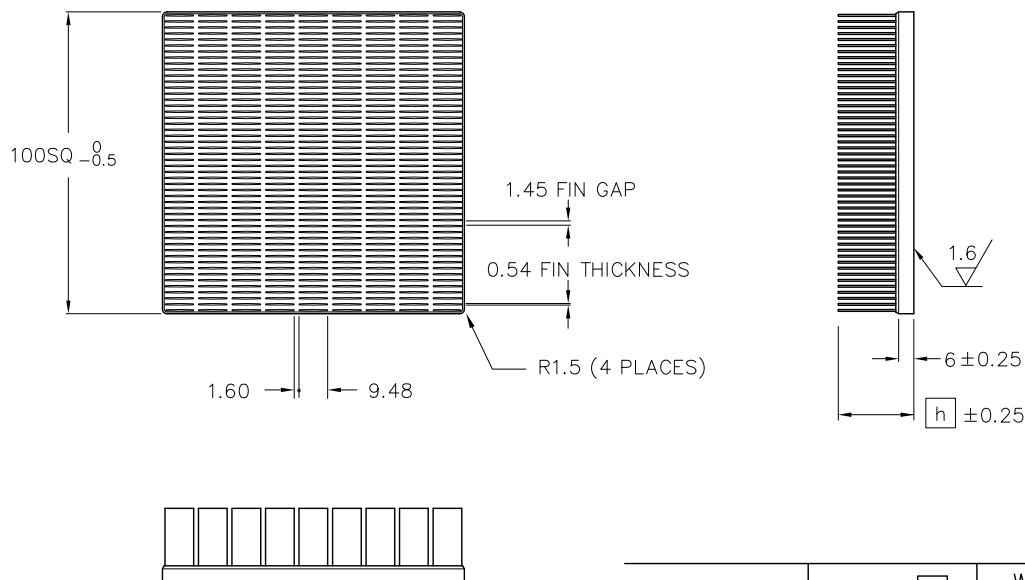
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ALPHA Low Pressure Drop and Low Thermal Resistance Heat Sink UB100



DIM

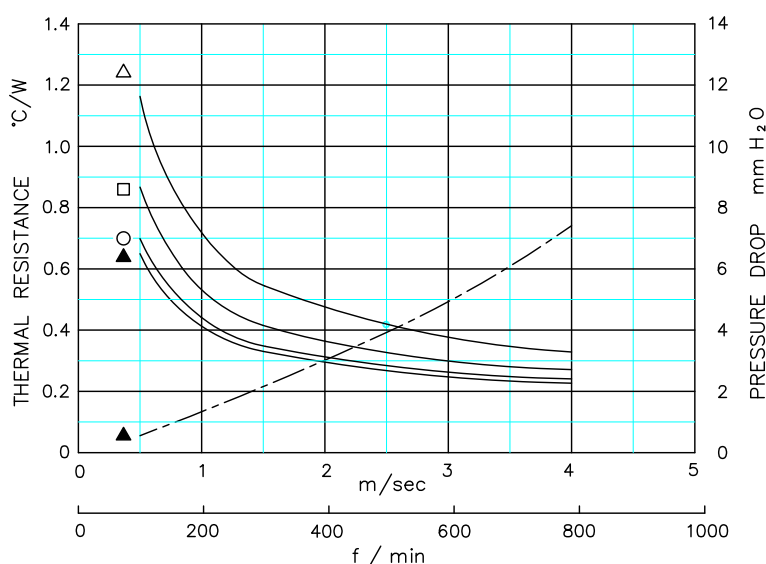


HEAT SINK
MATERIAL : A 6063
FINISH : BLACK ANODIZE

MODEL	HEIGHT h	WEIGHT (grams)
UB100-15B	15	209
UB100-20B	20	236
UB100-25B	25	264
UB100-30B	30	291

Dimensions : mm

DATA



AIR VELOCITY: DUCTED CONDITION

- $\triangle$ UB100-15B
- $\square$ UB100-20B
- $\circ$ UB100-25B
- $\blacktriangle$ UB100-30B

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

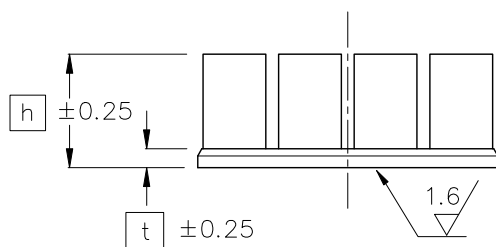
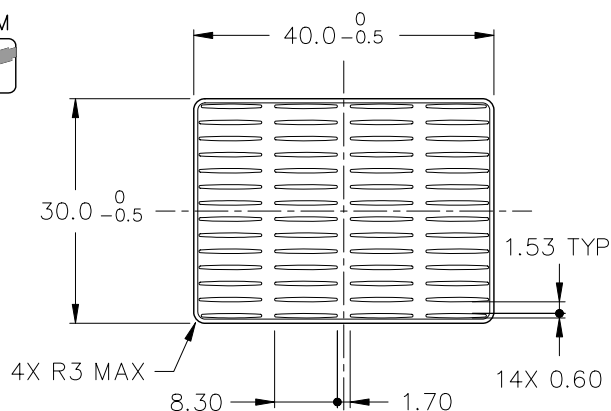
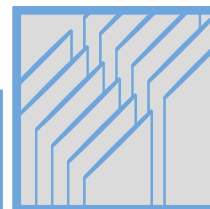
■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

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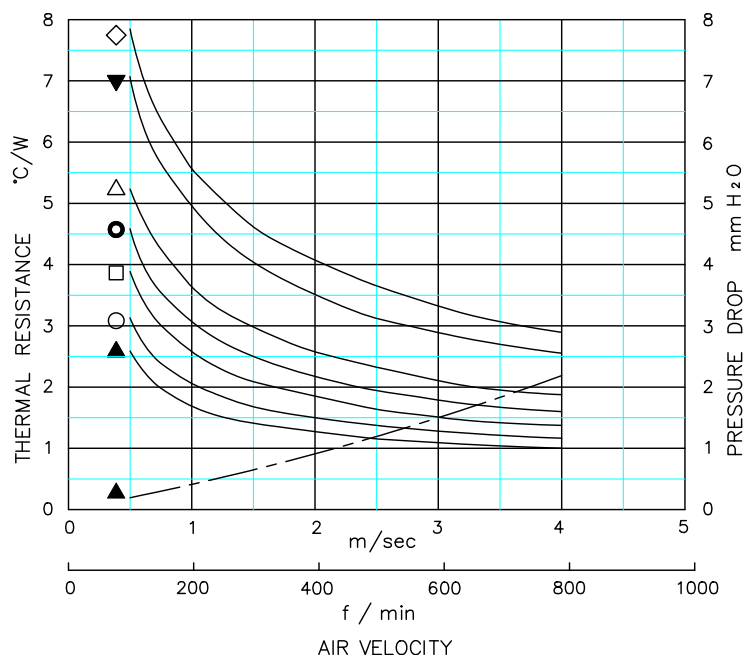
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MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB3040-6B	6	2.0	8.8
UB3040-7B	7		9.4
UB3040-10B	10	2.5	12.6
UB3040-12B	12		13.9
UB3040-15B	15		15.8
UB3040-20B	20		19.0
UB3040-25B	25		22.2

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

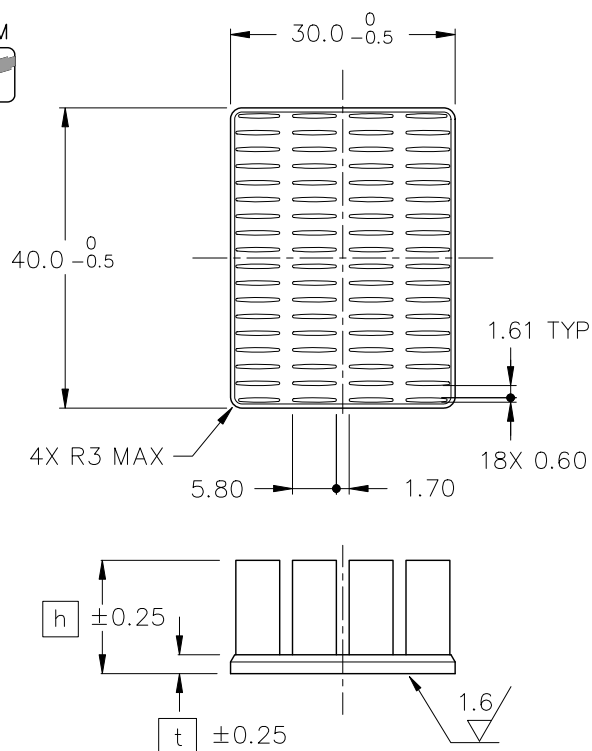
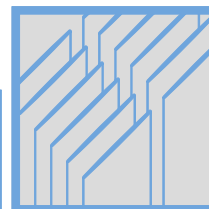
DATA



- ◇ UB3040-6B
- ▼ UB3040-7B
- △ UB3040-10B
- UB3040-12B
- UB3040-15B
- UB3040-20B
- ▲ UB3040-25B

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

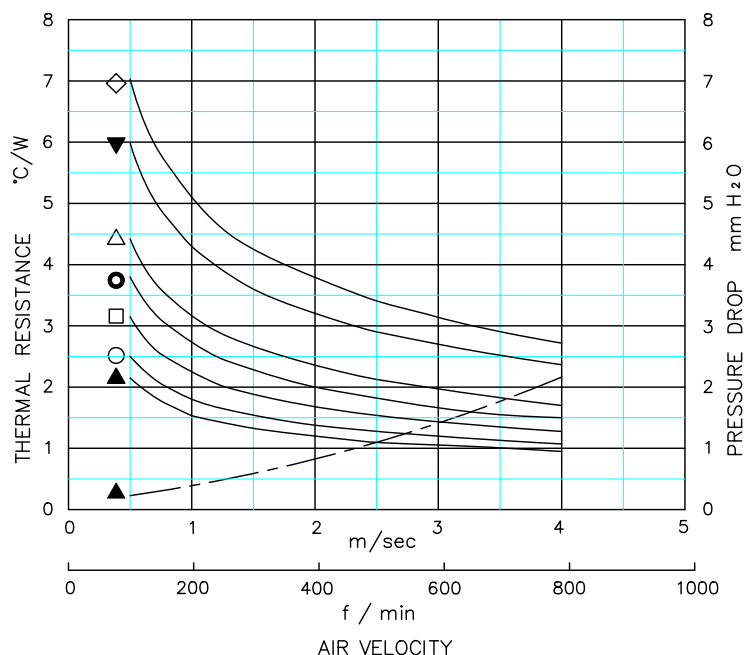
■ BASED ON ALPHA'S STANDARD TEST
PROCEDURE.
REFER TO TECHNICAL INFORMATION.

ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB4030**

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB4030-6B	6	2.0	8.5
UB4030-7B	7		9.1
UB4030-10B	10	2.5	12.1
UB4030-12B	12		13.2
UB4030-15B	15		14.9
UB4030-20B	20		17.8
UB4030-25B	25		20.6

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ◇ UB4030-6B
- ▼ UB4030-7B
- △ UB4030-10B
- UB4030-12B
- UB4030-15B
- UB4030-20B
- ▲ UB4030-25B

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

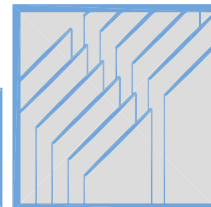
■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
 REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

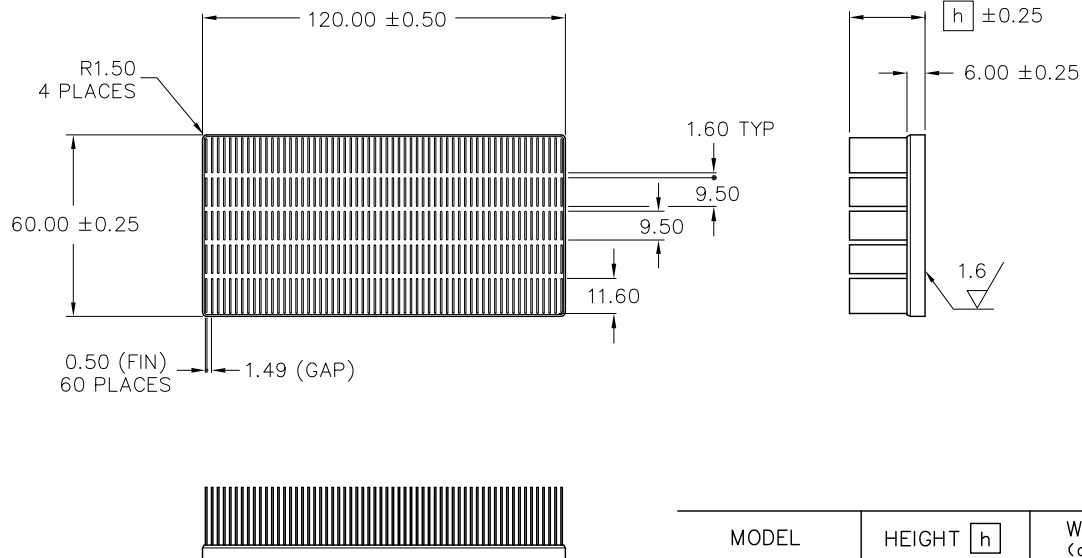
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB12060**

DIM

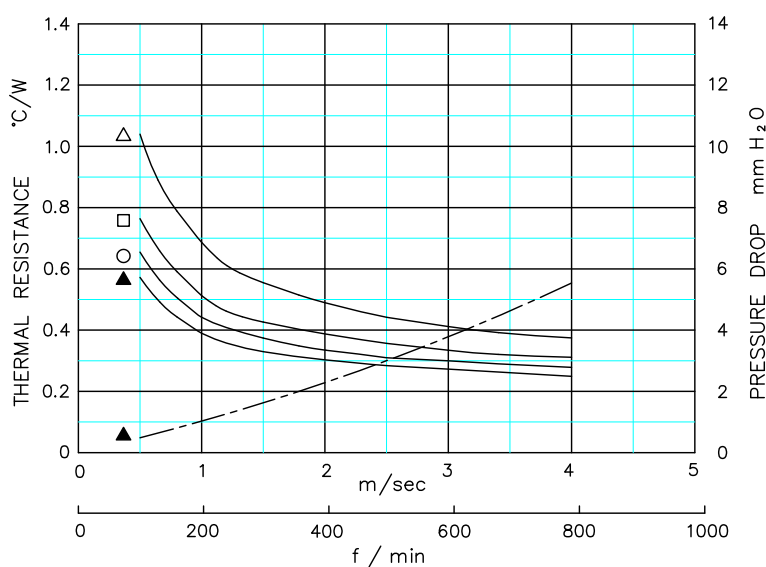


HEAT SINK
MATERIAL : A 6063
FINISH : BLACK ANODIZE

MODEL	HEIGHT h	WEIGHT (grams)
UB12060-15B	15	153.1
UB12060-20B	20	173.8
UB12060-25B	25	194.4
UB12060-30B	30	215.1

Dimensions mm

DATA



AIR VELOCITY: DUCTED CONDITION

- △ UB12060-15B
- UB12060-20B
- UB12060-25B
- ▲ UB12060-30B

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

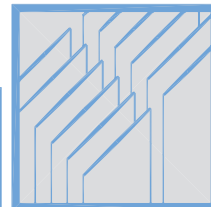
■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

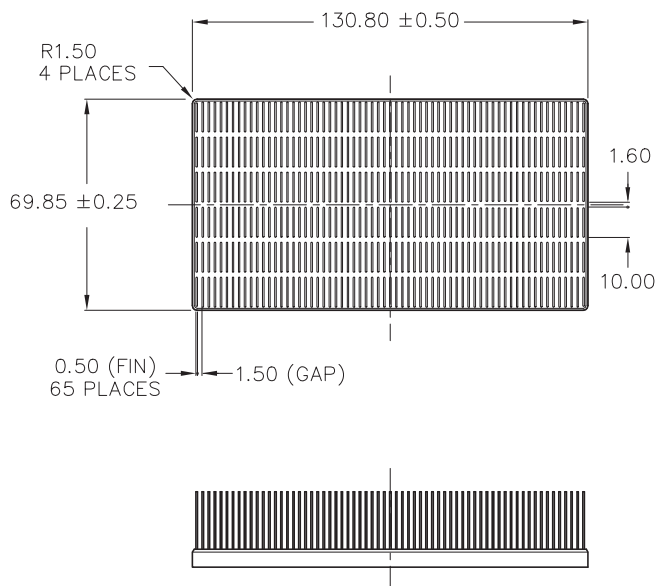
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ALPHALow Pressure Drop and
Low Thermal Resistance Heat Sink**UB13070**

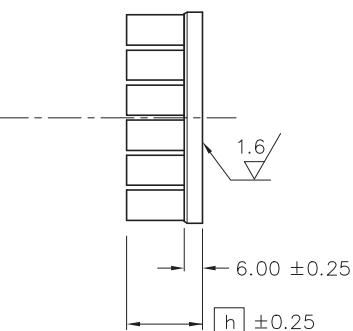
DIM



HEAT SINK

MATERIAL : A 6063

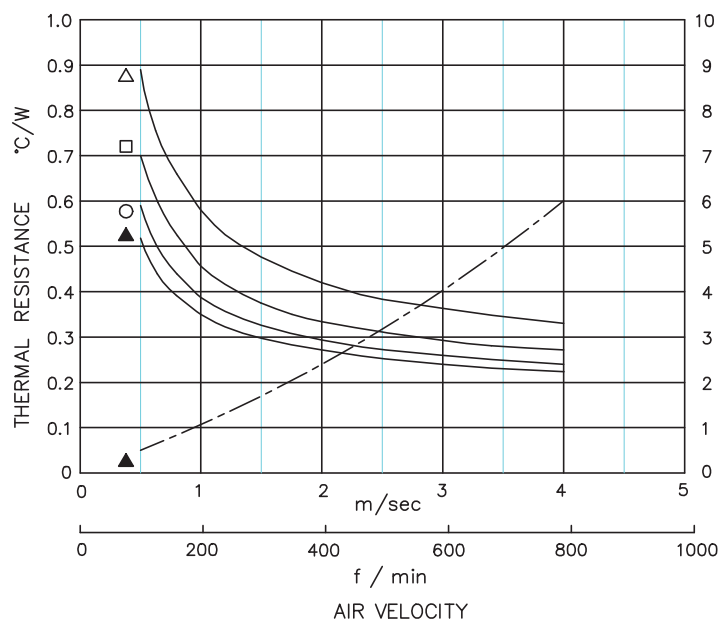
FINISH : BLACK ANODIZE



MODEL	HEIGHT [h]	WEIGHT (grams)
UB13070-15B	15.0	192.8
UB13070-20B	20.0	218.2
UB13070-25B	25.0	223.6
UB13070-30B	30.0	269.0

Dimensions : mm

DATA



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

- △ UB13070-15B
- UB13070-20B
- UB13070-25B
- ▲ UB13070-30B

■ Based on Alpha's Standard Test Procedure. (Refer to page marked Technical Information.)
Dummy Heater Size : 25.0SQ mm

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