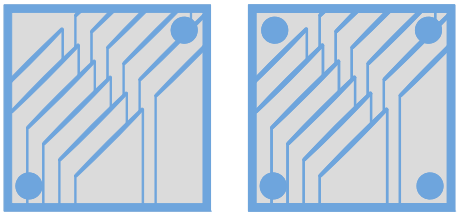


UBM Series
UBH Series
UBP Series

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

ALPHA

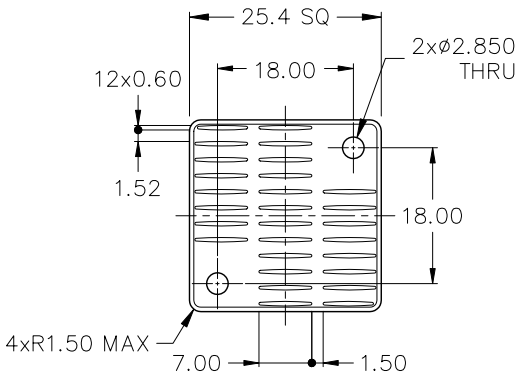
ALPHA

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

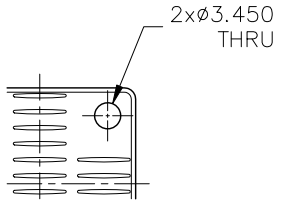
UBM25

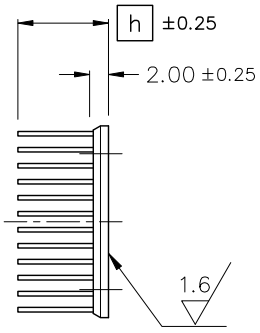
DIM

UBM25−XXBC
FOR ø2.500 ±0.05 PCB HOLES



UBM25−XXBP
FOR ø3.175 ±0.05 PCB HOLES





FOR ø2.500 ±0.05 PCB HOLES

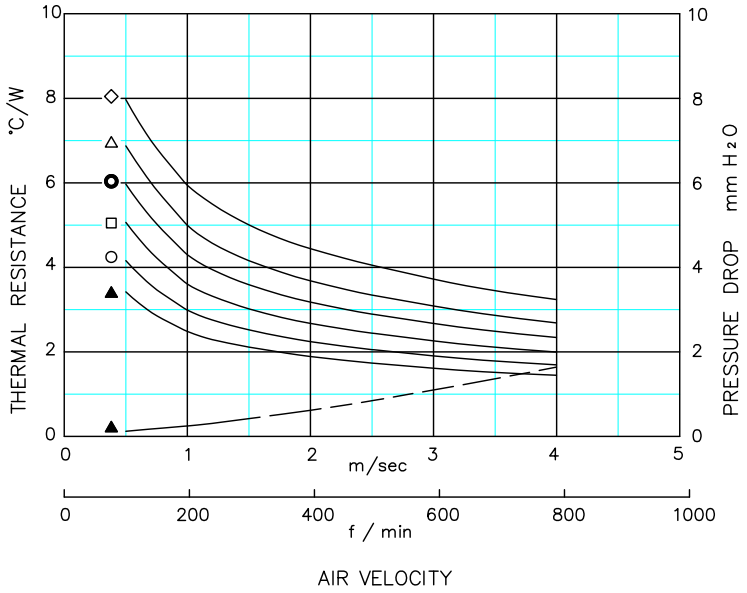
MODEL	HEIGHT h	WEIGHT(g)
UBM25−8BC	8	4.9
UBM25−10BC	10	5.5
UBM25−12BC	12	6.0
UBM25−15BC	15	6.8
UBM25−20BC	20	8.2
UBM25−25BC	25	9.5

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	WEIGHT(g)
UBM25−8BP	8	4.9
UBM25−10BP	10	5.4
UBM25−12BP	12	6.0
UBM25−15BP	15	6.8
UBM25−20BP	20	8.1
UBM25−25BP	25	9.5

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



◇ UBM25−8BC, UBM25−8BP
△ UBM25−10BC, UBM25−10BP
◎ UBM25−12BC, UBM25−12BP
□ UBM25−15BC, UBM25−15BP
○ UBM25−20BC, UBM25−20BP
▲ UBM25−25BC, UBM25−25BP

● 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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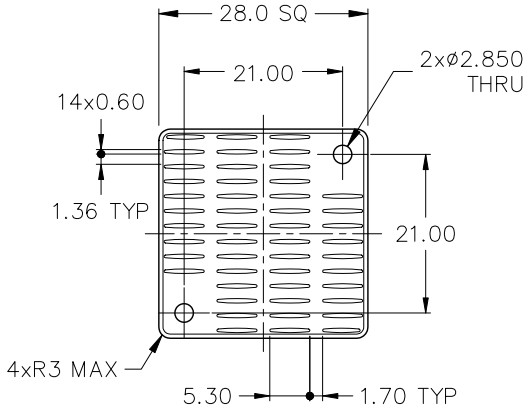
ALPHA

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

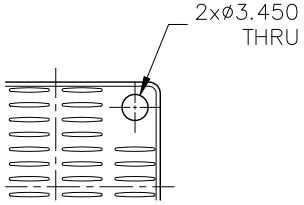
UBM28

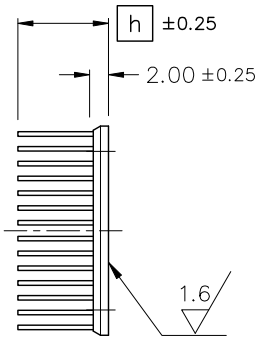
DIM

UBM28−XXBC
FOR ø2.500 ±0.05 PCB HOLES



UBM28−XXBP
FOR ø3.175 ±0.05 PCB HOLES





FOR ø2.500 ±0.05 PCB HOLES

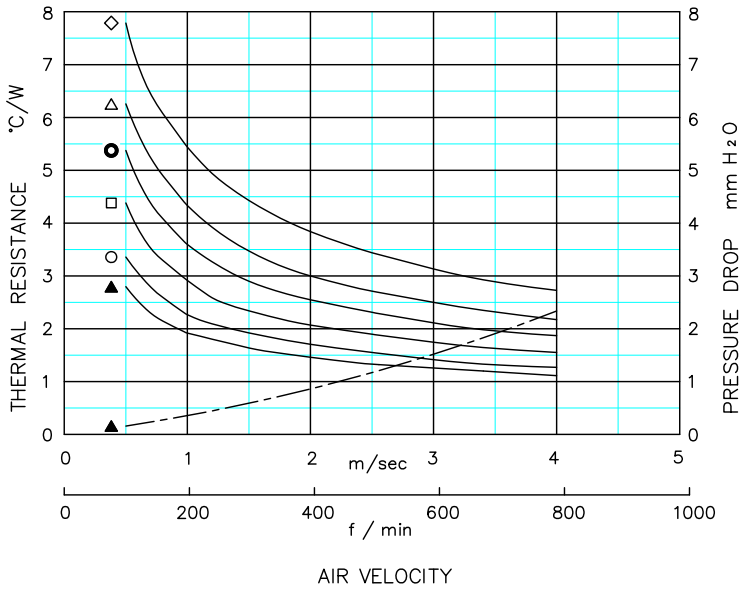
MODEL	HEIGHT h	WEIGHT(g)
UBM28−8BC	8	6.1
UBM28−10BC	10	6.8
UBM28−12BC	12	7.4
UBM28−15BC	15	8.5
UBM28−20BC	20	10.2
UBM28−25BC	25	11.9

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	WEIGHT(g)
UBM28−8BP	8	6.0
UBM28−10BP	10	6.7
UBM28−12BP	12	7.4
UBM28−15BP	15	8.4
UBM28−20BP	20	10.2
UBM28−25BP	25	11.9

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



◇ UBM28−8BC, UBM28−8BP
△ UBM28−10BC, UBM28−10BP
◎ UBM28−12BC, UBM28−12BP
□ UBM28−15BC, UBM28−15BP
○ UBM28−20BC, UBM28−20BP
▲ UBM28−25BC, UBM28−25BP

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

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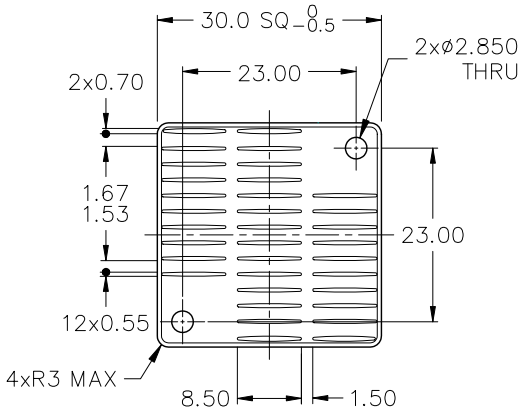
ALPHA

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

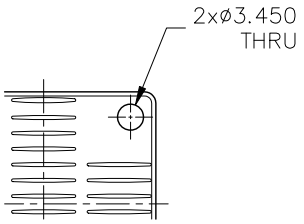
UBM30

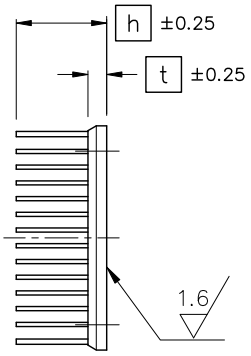
DIM

UBM30−XXBC
FOR ø2.500 ±0.05 PCB HOLES



UBM30−XXBP
FOR ø3.175 ±0.05 PCB HOLES





FOR ø2.500 ±0.05 PCB HOLES

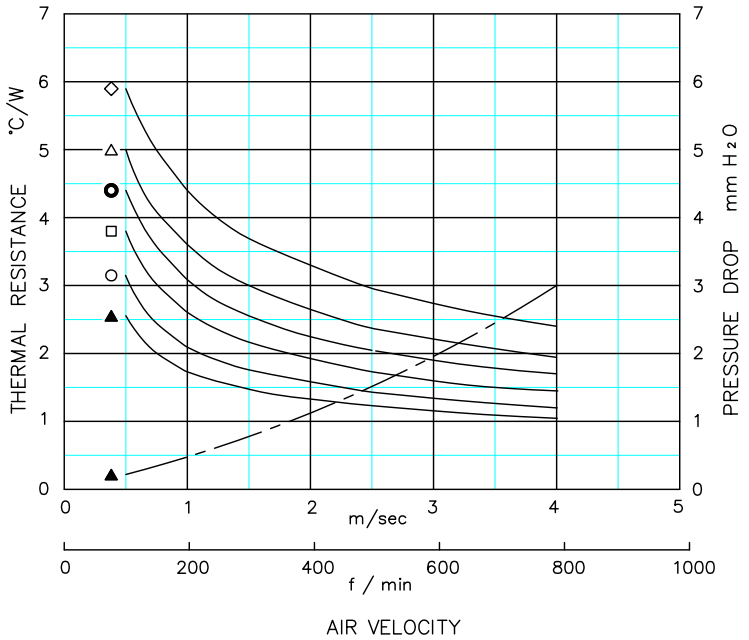
MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBM30−8BC	8	2.0	6.9
UBM30−10BC	10	2.5	8.6
UBM30−12BC	12		9.4
UBM30−15BC	15		10.5
UBM30−20BC	20		12.4
UBM35−25BC	25		14.3

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBM30−8BP	8	2.0	6.9
UBM30−10BP	10	2.5	8.6
UBM30−12BP	12		9.3
UBM30−15BP	15		10.5
UBM30−20BP	20		12.4
UBM30−25BP	25		14.3

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



◇ UBM30−8BC, UBM30−8BP
△ UBM30−10BC, UBM30−10BP
◎ UBM30−12BC, UBM30−12BP
□ UBM30−15BC, UBM30−15BP
○ UBM30−20BC, UBM30−20BP
▲ UBM30−25BC, UBM30−25BP

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

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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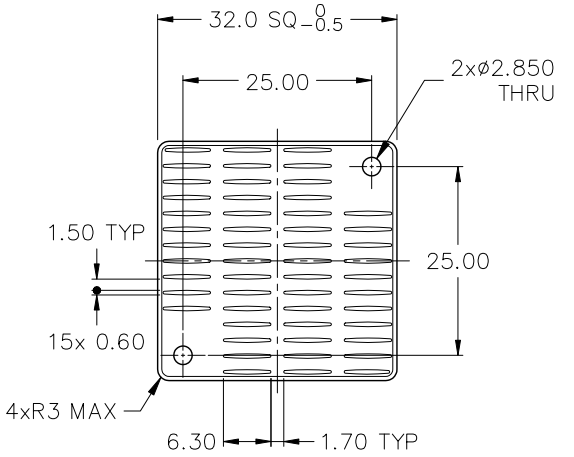
ALPHA

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

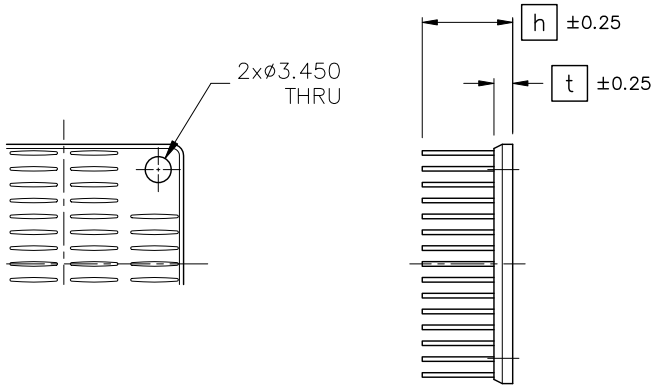
UBM32

DIM

UBM32−XXBC
FOR ø2.500 ±0.05 PCB HOLES



UBM32−XXBP
FOR ø3.175 ±0.05 PCB HOLES



FOR ø2.500 ±0.05 PCB HOLES

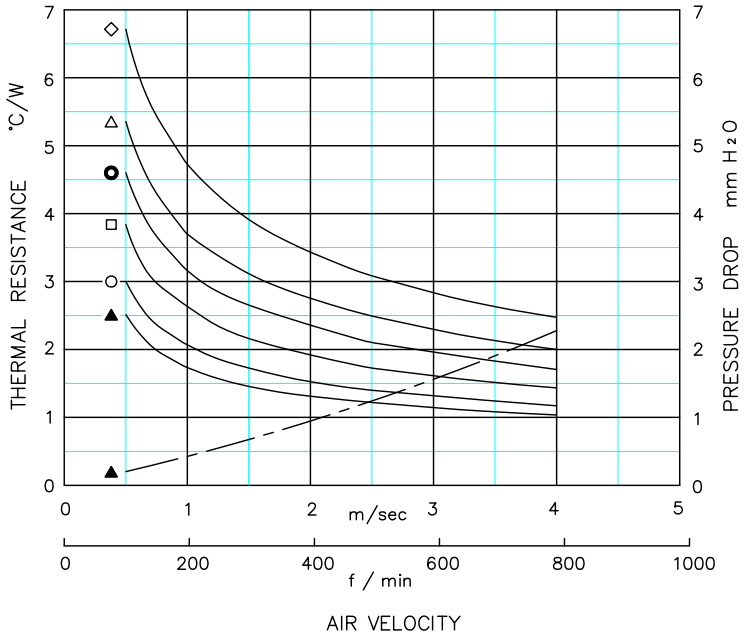
MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBM32−8BC	8	2.0	7.9
UBM32−10BC	10	2.5	9.9
UBM32−12BC	12		10.8
UBM32−15BC	15		12.2
UBM32−20BC	20		14.4
UBM32−25BC	25		16.7

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBM32−8BP	8	2.0	7.9
UBM32−10BP	10	2.5	9.9
UBM32−12BP	12		10.8
UBM32−15BP	15		12.1
UBM32−20BP	20		14.4
UBM32−25BP	25		16.6

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



◇ UBM32−8BC, UBM32−8BP
△ UBM32−10BC, UBM32−10BP
◎ UBM32−12BC, UBM32−12BP
□ UBM32−15BC, UBM32−15BP
○ UBM32−20BC, UBM32−20BP
▲ UBM32−25BC, UBM32−25BP

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

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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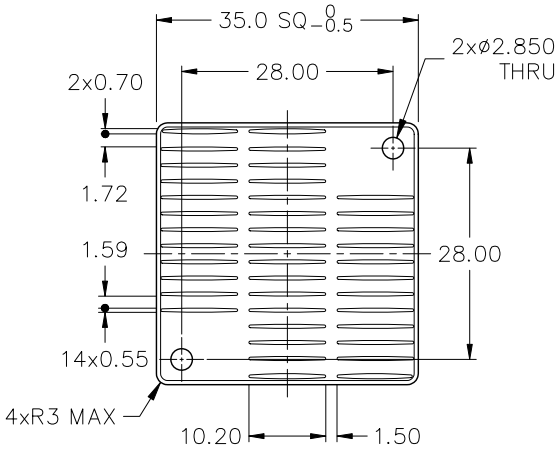
ALPHA

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

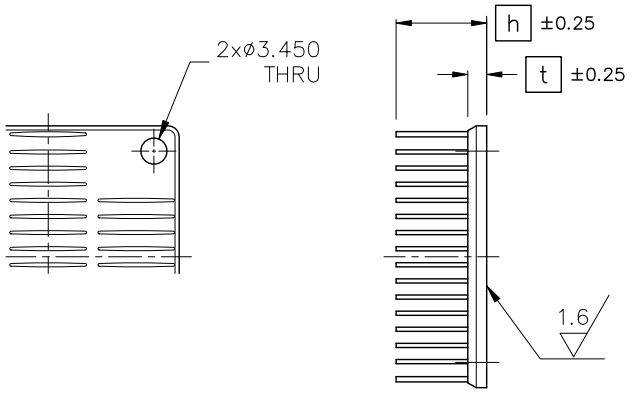
UBM35

DIM

UBM35−XXBC
FOR ø2.500 ±0.05 PCB HOLES



UBM35−XXBP
FOR ø3.175 ±0.05 PCB HOLES



FOR ø2.500 ±0.05 PCB HOLES

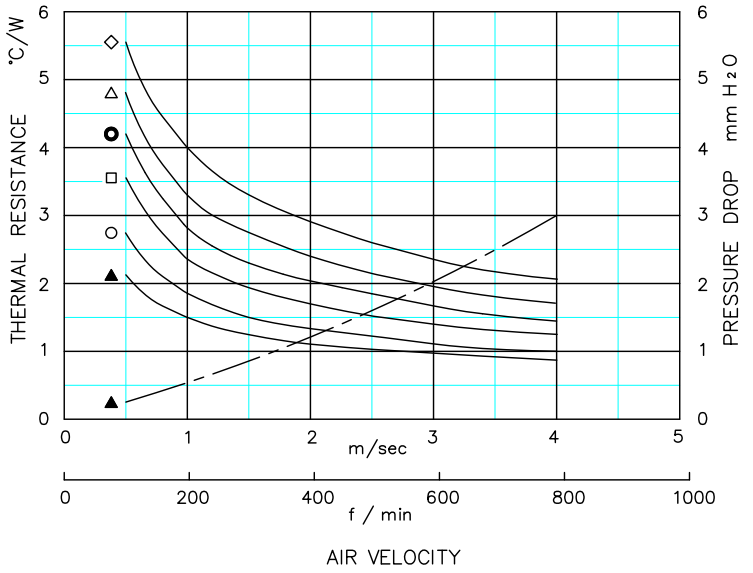
MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBM35−8BC	8	2.0	9.5
UBM35−10BC	10	3.0	13.3
UBM35−12BC	12		14.4
UBM35−15BC	15		16.0
UBM35−20BC	20		18.7
UBM35−25BC	25		21.3

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBM35−8BP	8	2.0	9.5
UBM35−10BP	10	3.0	13.2
UBM35−12BP	12		14.3
UBM35−15BP	15		15.9
UBM35−20BP	20		18.6
UBM35−25BP	25		21.3

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



◇ UBM35−8BC, UBM35−8BP
△ UBM35−10BC, UBM35−10BP
◎ UBM35−12BC, UBM35−12BP
□ UBM35−15BC, UBM35−15BP
○ UBM35−20BC, UBM35−20BP
▲ UBM35−25BC, UBM35−25BP

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

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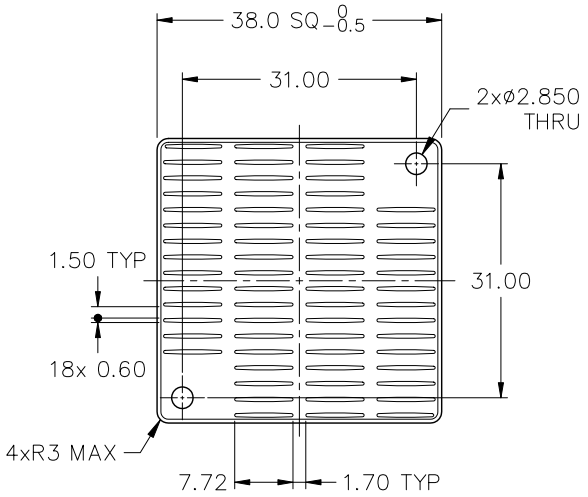
ALPHA

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

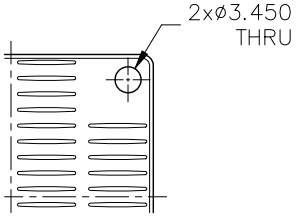
UBM38

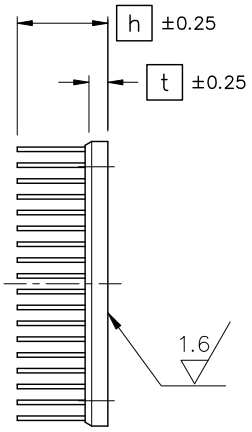
DIM

UBM38−XXBC
FOR ø2.500 ±0.05 PCB HOLES



UBM38−XXBP
FOR ø3.175 ±0.05 PCB HOLES





FOR ø2.500 ±0.05 PCB HOLES

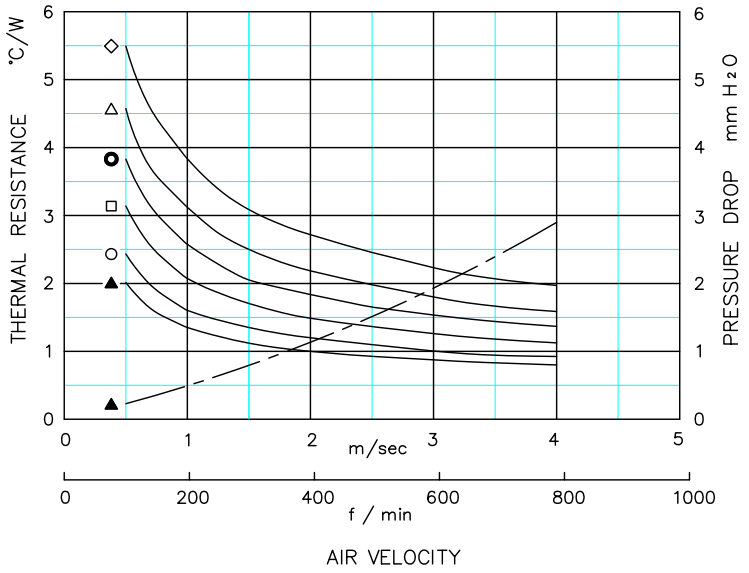
MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBM38−8BC	8	2.0	11.6
UBM38−10BC	10	3.0	16.1
UBM38−12BC	12		17.5
UBM38−15BC	15		19.5
UBM38−20BC	20		23.0
UBM38−25BC	25		26.4

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBM38−8BP	8	2.0	11.6
UBM38−10BP	10	3.0	16.1
UBM38−12BP	12		17.4
UBM38−15BP	15		19.5
UBM38−20BP	20		22.9
UBM38−25BP	25		26.3

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



◇ UBM38−8BC, UBM38−8BP
△ UBM38−10BC, UBM38−10BP
◎ UBM38−12BC, UBM38−12BP
□ UBM38−15BC, UBM38−15BP
○ UBM38−20BC, UBM38−20BP
▲ UBM38−25BC, UBM38−25BP

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

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ALPHA

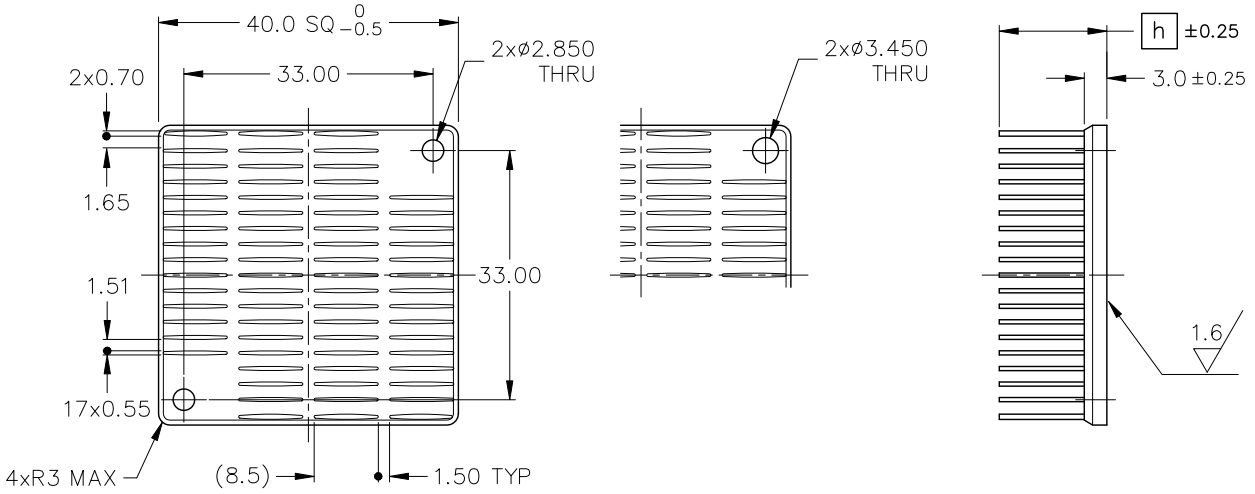
Low Pressure Drop and
Low Thermal Resistance Heat Sink
with attachment holes

UBM40

DIM

UBM40−XXBC
FOR ø2.500 ±0.05 PCB HOLES

UBM40−XXBP
FOR ø3.175 ±0.05 PCB HOLES



FOR ø2.500 ±0.05 PCB HOLES

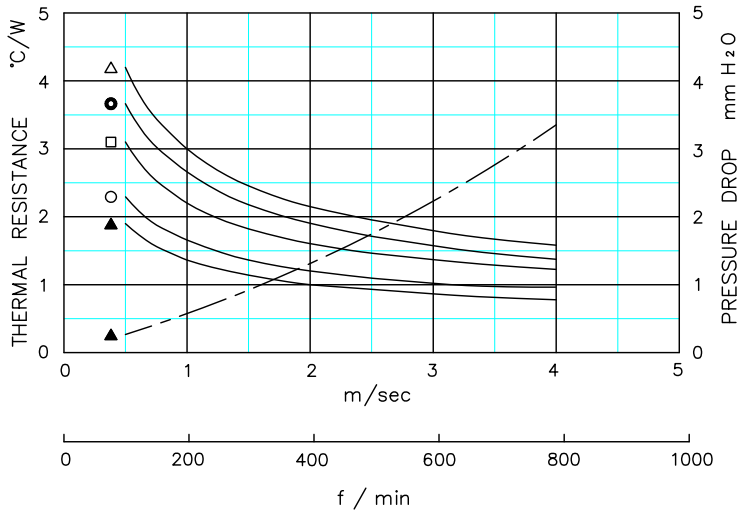
MODEL	HEIGHT h	WEIGHT(g)
UBM40−10BC	10	17.8
UBM40−12BC	12	19.4
UBM40−15BC	15	21.6
UBM40−20BC	20	25.4
UBM40−25BC	25	29.2

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	WEIGHT(g)
UBM40−10BP	10	17.9
UBM40−12BP	12	19.5
UBM40−15BP	15	21.8
UBM40−20BP	20	25.8
UBM40−25BP	25	29.7

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



△ UBM40−10BC, UBM40−10BP
◎ UBM40−12BC, UBM40−12BP
□ UBM40−15BC, UBM40−15BP
○ UBM40−20BC, UBM40−20BP
▲ UBM40−25BC, UBM40−25BP

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

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

AIR VELOCITY: DUCTED CONDITION

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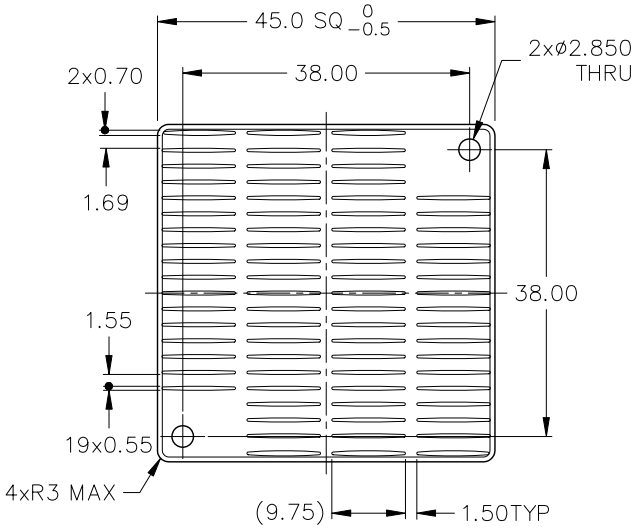
ALPHA

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

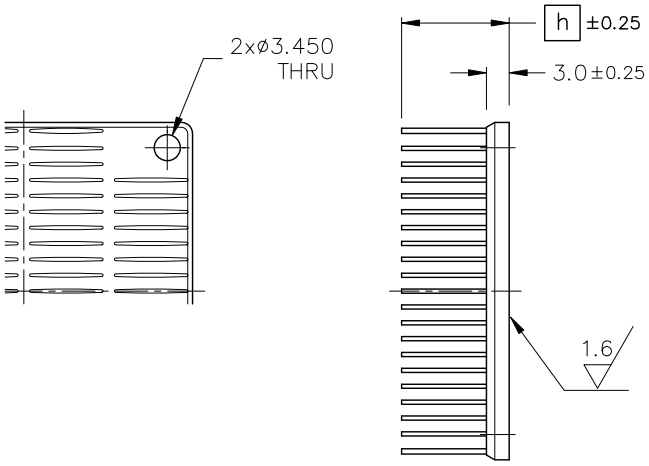
UBM45

DIM

UBM45−XXBC
FOR ø2.500 ±0.05 PCB HOLES



UBM45−XXBP
FOR ø3.175 ±0.05 PCB HOLES



FOR ø2.500 ±0.05 PCB HOLES

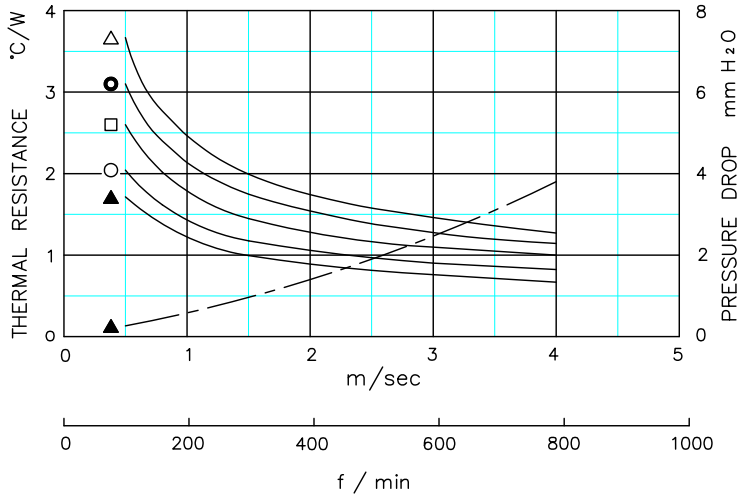
MODEL	HEIGHT h	WEIGHT(g)
UBM45−10BC	10	22.7
UBM45−12BC	12	24.7
UBM45−15BC	15	27.6
UBM45−20BC	20	32.5
UBM45−25BC	25	37.3

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	WEIGHT(g)
UBM45−10BP	10	23.0
UBM45−12BP	12	25.0
UBM45−15BP	15	28.0
UBM45−20BP	20	33.0
UBM45−25BP	25	38.0

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



△ UBM45−10BC, UBM45−10BP
◎ UBM45−12BC, UBM45−12BP
□ UBM45−15BC, UBM45−15BP
○ UBM45−20BC, UBM45−20BP
▲ UBM45−25BC, UBM45−25BP

● 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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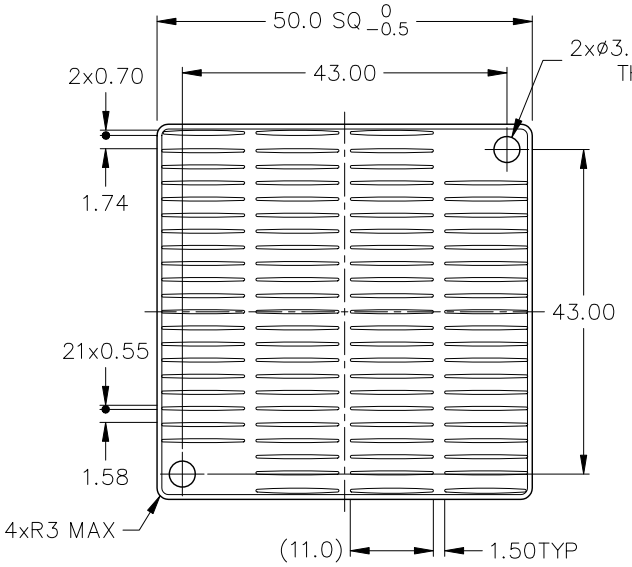
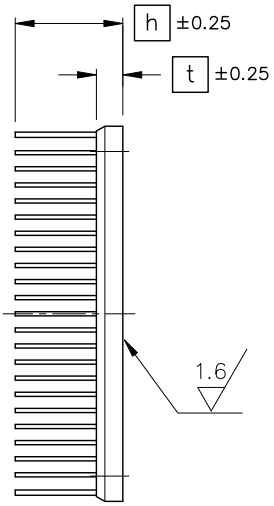
ALPHA

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

UBM50

DIM

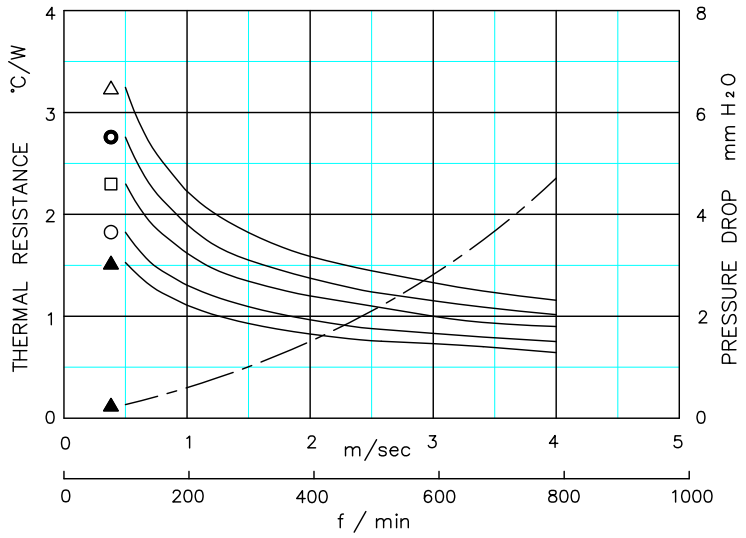




MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT(g)
UBM50−10BP	10	3.0	28.1
UBM50−12BP	12		30.6
UBM50−15BP	15	3.5	37.0
UBM50−20BP	20		43.1
UBM50−25BP	25		49.2

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



△ UBM50−10BP
○ UBM50−12BP
□ UBM50−15BP
○ UBM50−20BP
▲ UBM50−25BP

● 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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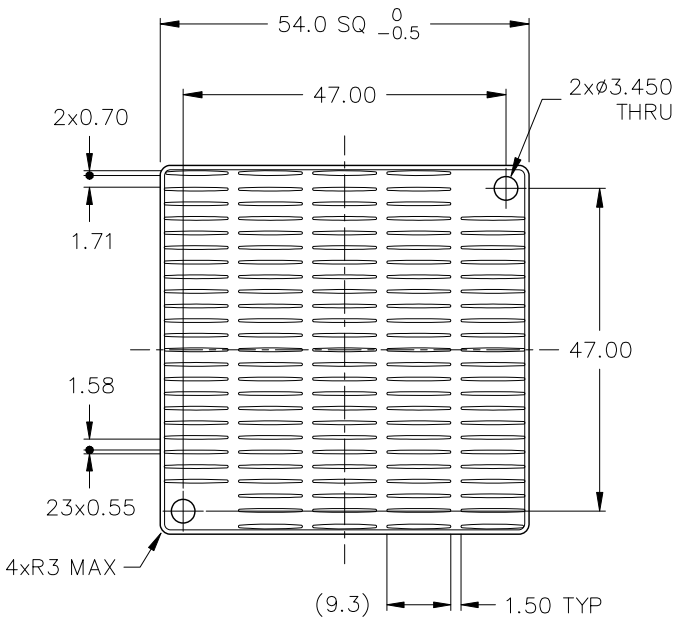
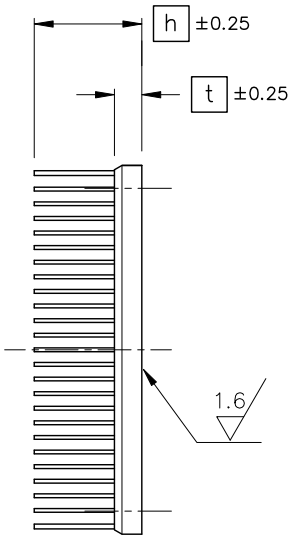
ALPHA

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

UBM54

DIM

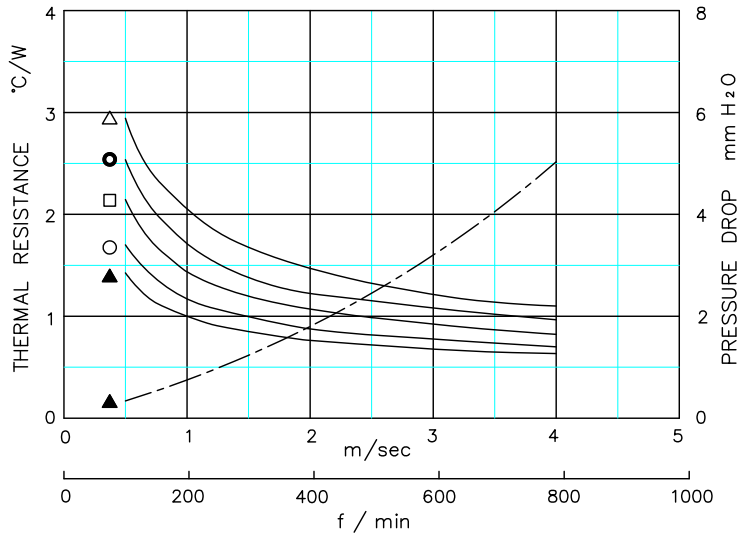




MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBM54−10BP	10	3.0	32.9
UBM54−12BP	12		35.7
UBM54−15BP	15	4.0	46.3
UBM54−20BP	20		53.5
UBM54−25BP	25		60.6

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



△ UBM54−10BP
◎ UBM54−12BP
□ UBM54−15BP
○ UBM54−20BP
▲ UBM54−25BP

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

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

AIR VELOCITY: DUCTED CONDITION

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ALPHA

Low Pressure Drop and
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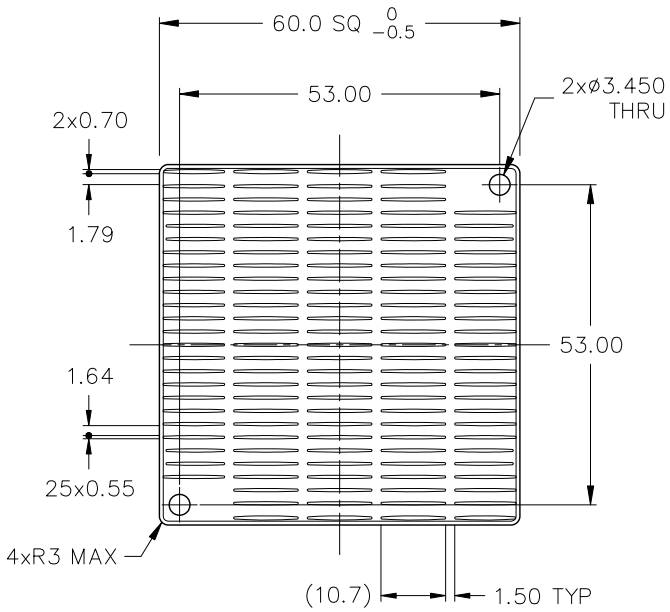
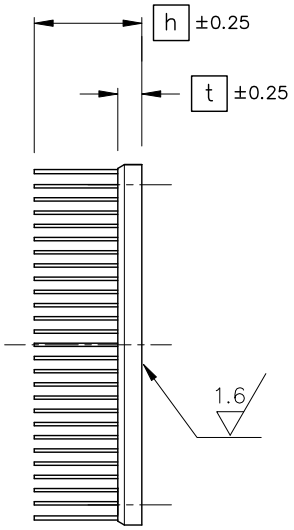
with attachment holes

UBM 60

DIM

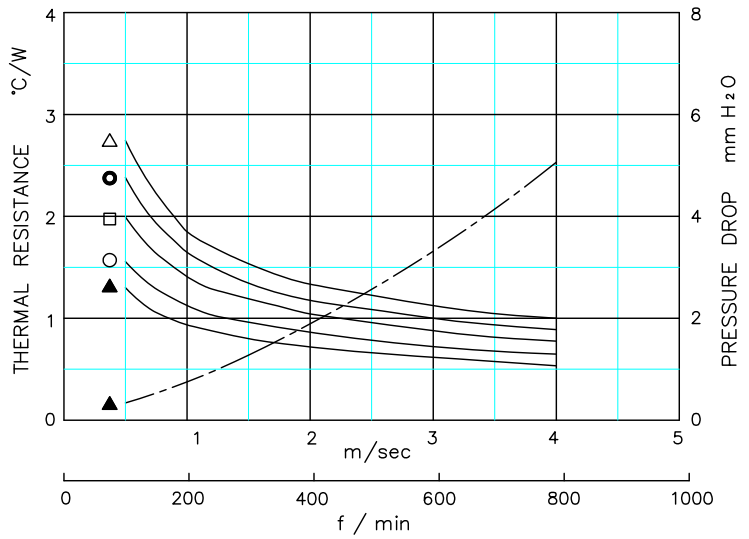




MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBM60−10BP	10	3.0	40.9
UBM60−12BP	12		44.4
UBM60−15BP	15	4.0	57.6
UBM60−20BP	20		66.5
UBM60−25BP	25		75.4

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



△ UBM60−10BP
○ UBM60−12BP
□ UBM60−15BP
○ UBM60−20BP
▲ UBM60−25BP

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

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

AIR VELOCITY: DUCTED CONDITION

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ALPHA

Low Pressure Drop and
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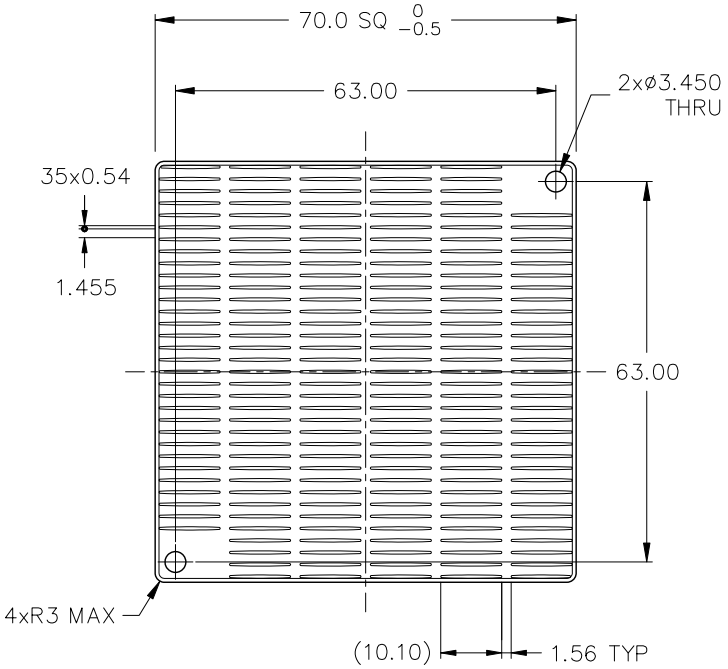
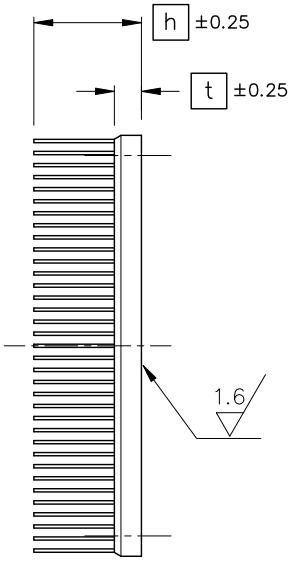
with attachment holes

UBM70

DIM

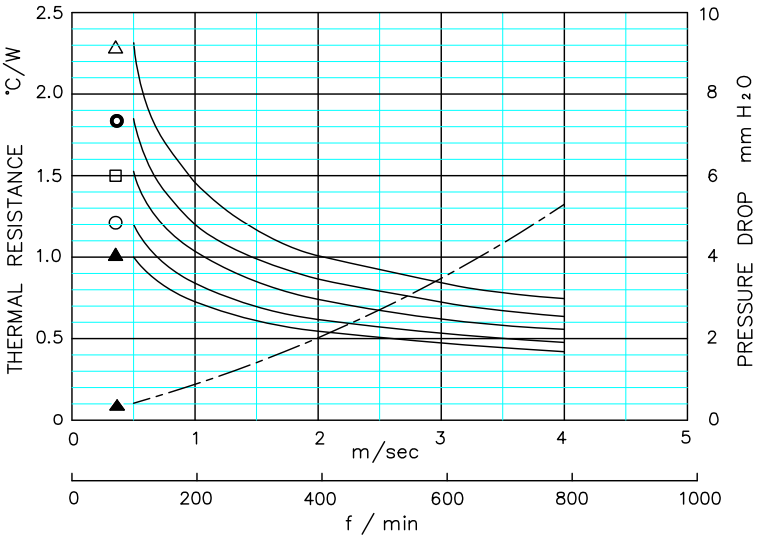




MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT(g)
UBM70−10BP	10	3.0	57.0
UBM70−12BP	12		62.2
UBM70−15BP	15	4.0	80.4
UBM70−20BP	20		93.4
UBM70−25BP	25		106.4

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



△ UBM70−10BP
○ UBM70−12BP
□ UBM70−15BP
○ UBM70−20BP
▲ UBM70−25BP

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

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AIR VELOCITY: DUCTED CONDITION

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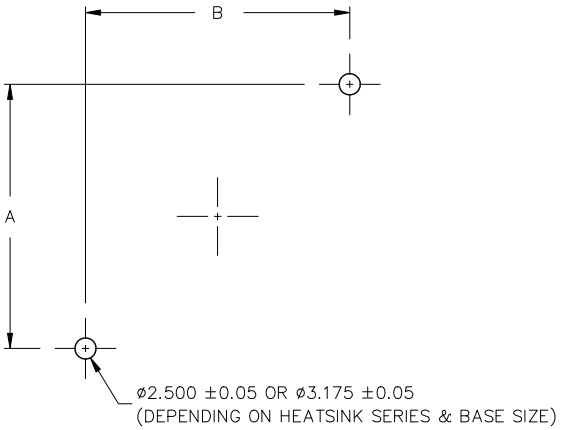
REF

PCB HOLE LAYOUT



MODEL	A	B
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

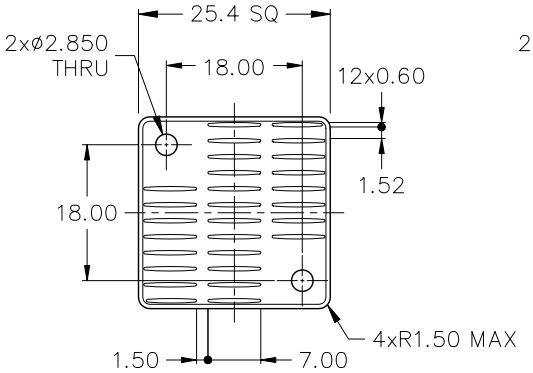
ALPHA

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

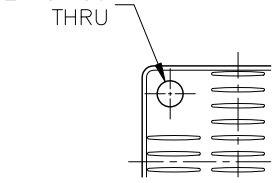
UBH25

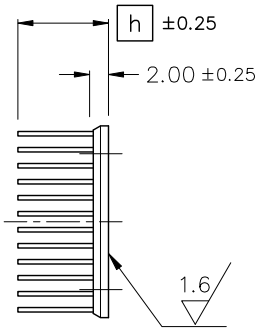
DIM

UBH25−XXBC
FOR ø2.500 ±0.05 PCB HOLES



UBH25−XXBP
FOR ø3.175 ±0.05 PCB HOLES





FOR ø2.500 ±0.05 PCB HOLES

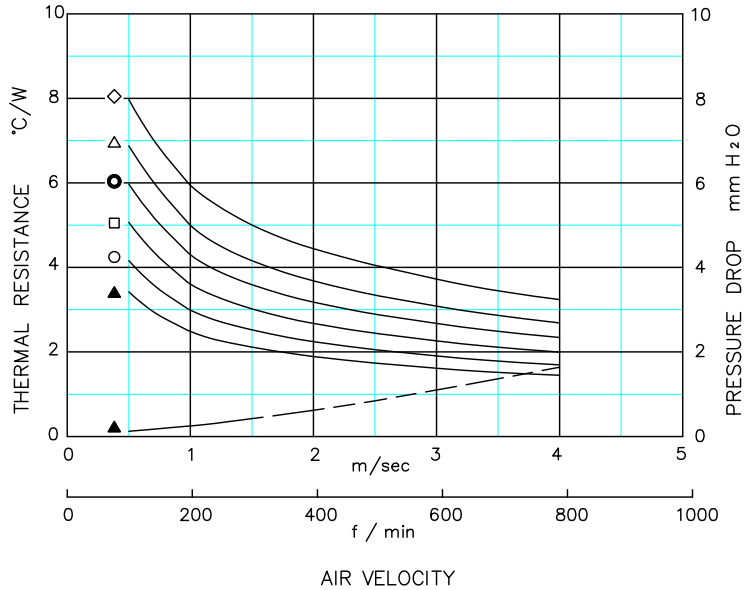
MODEL	HEIGHT h	WEIGHT(g)
UBH25−8BC	8	4.9
UBH25−10BC	10	5.5
UBH25−12BC	12	6.0
UBH25−15BC	15	6.8
UBH25−20BC	20	8.2
LPDM25−25BC	25	9.5

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	WEIGHT(g)
UBH25−8BP	8	4.9
UBH25−10BP	10	5.4
UBH25−12BP	12	6.0
UBH25−15BP	15	6.8
UBH25−20BP	20	8.1
UBH25−25BP	25	9.5

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



◇ UBH25−8BC, UBH25−8BP
△ UBH25−10BC, UBH25−10BP
◎ UBH25−12BC, UBH25−12BP
□ UBH25−15BC, UBH25−15BP
○ UBH25−20BC, UBH25−20BP
▲ UBH25−25BC, UBH25−25BP

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

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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ALPHA

Low Pressure Drop and
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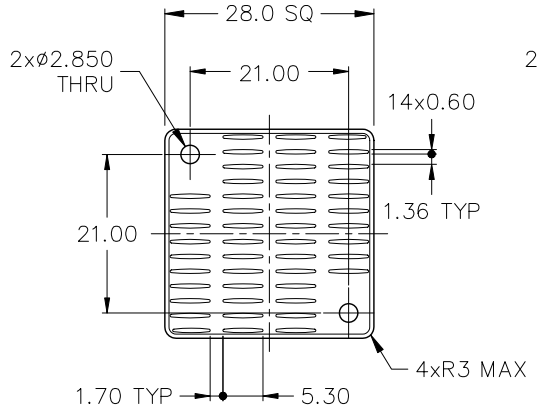
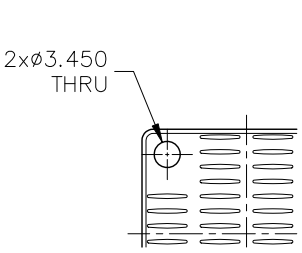
UBH28

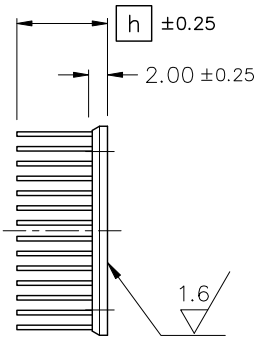
DIM

UBH28−XXBC
FOR ø2.500 ±0.05 PCB HOLES



UBH28−XXBP
FOR ø3.175 ±0.05 PCB HOLES





FOR ø2.500 ±0.05 PCB HOLES

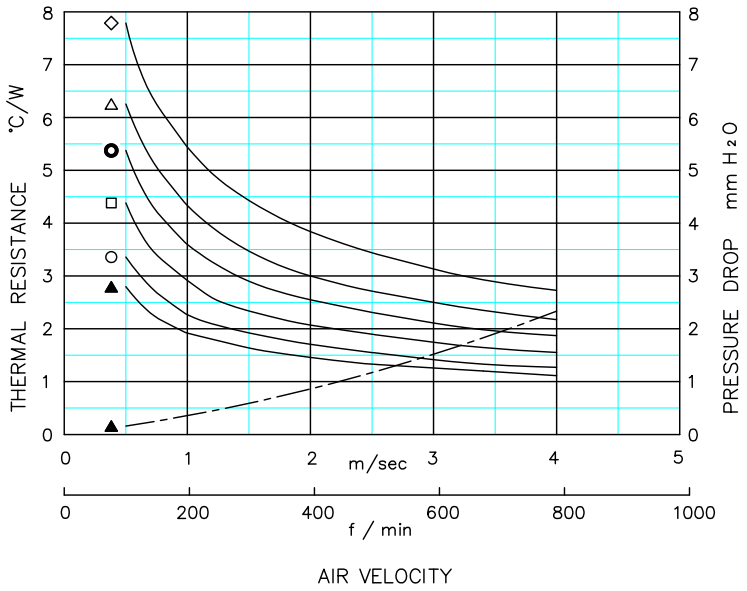
MODEL	HEIGHT h	WEIGHT(g)
UBH28−8BC	8	6.1
UBH28−10BC	10	6.8
UBH28−12BC	12	7.4
UBH28−15BC	15	8.5
UBH28−20BC	20	10.2
UBH28−25BC	25	11.9

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	WEIGHT(g)
UBH28−8BP	8	6.0
UBH28−10BP	10	6.7
UBH28−12BP	12	7.4
UBH28−15BP	15	8.4
UBH28−20BP	20	10.2
UBH28−25BP	25	11.9

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



AIR VELOCITY

◇ UBH28−8BC, UBH28−8BP
△ UBH28−10BC, UBH28−10BP
◎ UBH28−12BC, UBH28−12BP
□ UBH28−15BC, UBH28−15BP
○ UBH28−20BC, UBH28−20BP
▲ UBH28−25BC, UBH28−25BP

● 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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ALPHA

Low Pressure Drop and
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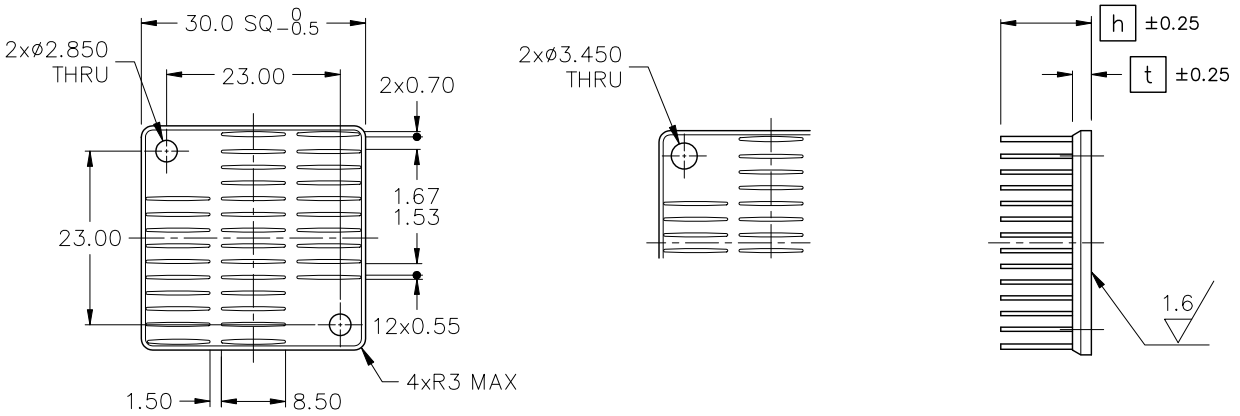
with attachment holes

UBH30

DIM

UBH30−XXBC
FOR ø2.500 ±0.05 PCB HOLES

UBH30−XXBP
FOR ø3.175 ±0.05 PCB HOLES



FOR ø2.500 ±0.05 PCB HOLES

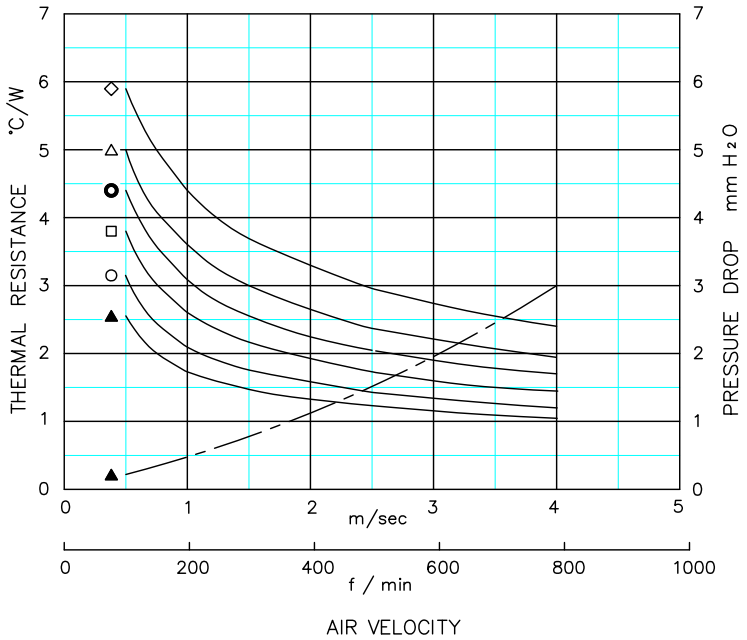
MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBH30−8BC	8	2.0	6.9
UBH30−10BC	10	2.5	8.6
UBH30−12BC	12		9.4
UBH30−15BC	15		10.5
UBH30−20BC	20		12.4
UBH30−25BC	25		14.3

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBH30−8BP	8	2.0	6.9
UBH30−10BP	10	2.5	8.6
UBH30−12BP	12		9.3
UBH30−15BP	15		10.5
UBH30−20BP	20		12.4
UBH30−25BP	25		14.3

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



◇ UBH30−8BC, UBH30−8BP
△ UBH30−10BC, UBH30−10BP
◎ UBH30−12BC, UBH30−12BP
□ UBH30−15BC, UBH30−15BP
○ UBH30−20BC, UBH30−20BP
▲ UBH30−25BC, UBH30−25BP

● 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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ALPHA

Low Pressure Drop and
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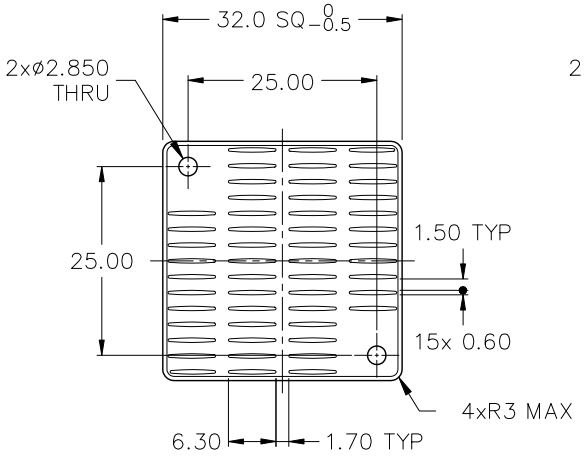
with attachment holes

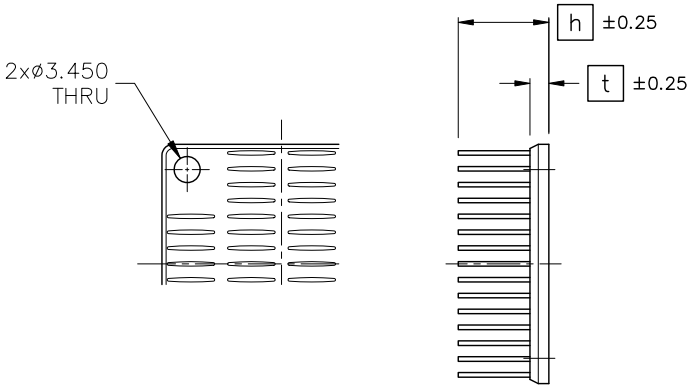
UBH32

DIM

UBH32−XXBC
FOR ø2.500 ±0.05 PCB HOLES



UBH32−XXBP
FOR ø3.175 ±0.05 PCB HOLES



FOR ø2.500 ±0.05 PCB HOLES

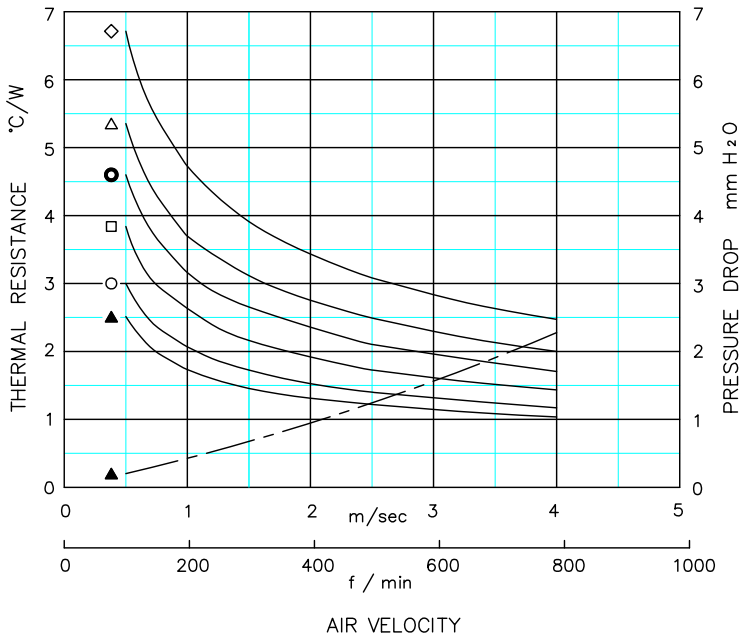
MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBH32−8BC	8	2.0	7.9
UBH32−10BC	10	2.5	9.9
UBH32−12BC	12		10.8
UBH32−15BC	15		12.2
UBH32−20BC	20		14.4
UBH32−25BC	25		16.7

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBH32−8BP	8	2.0	7.9
UBH32−10BP	10	2.5	9.9
UBH32−12BP	12		10.8
UBH32−15BP	15		12.1
UBH32−20BP	20		14.4
UBH32−25BP	25		16.6

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



◇ UBH32−8BC, UBH32−8BP
△ UBH32−10BC, UBH32−10BP
◎ UBH32−12BC, UBH32−12BP
□ UBH32−15BC, UBH32−15BP
○ UBH32−20BC, UBH32−20BP
▲ UBH32−25BC, UBH32−25BP

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

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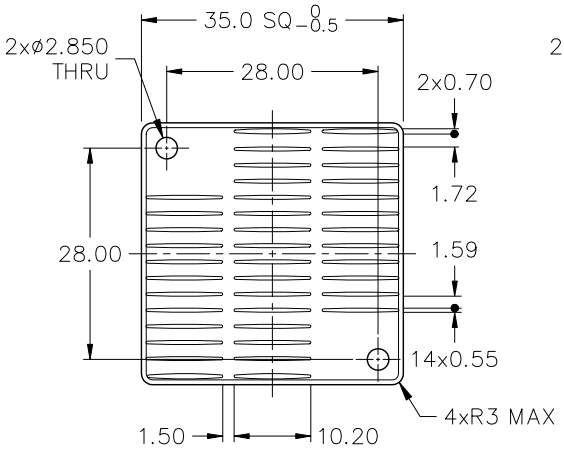
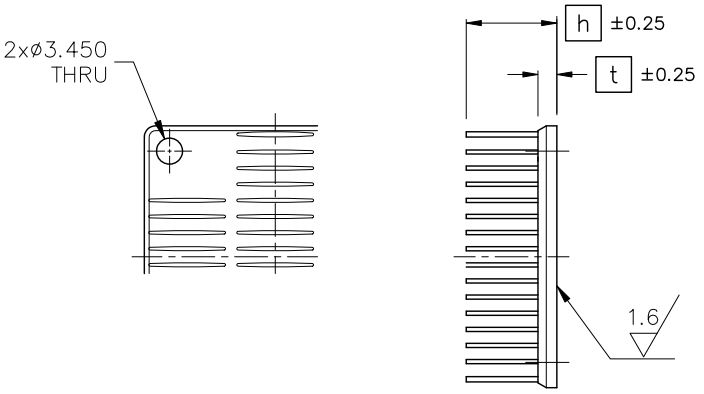
UBH35

DIM

UBH35−XXBC
FOR ø2.500 ±0.05 PCB HOLES



UBH35−XXBP
FOR ø3.175 ±0.05 PCB HOLES



FOR ø2.500 ±0.05 PCB HOLES

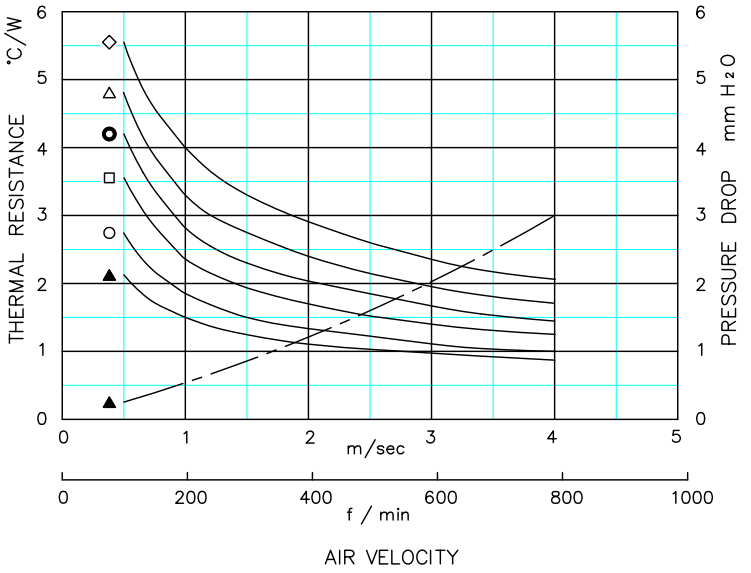
MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBH35−8BC	8	2.0	9.5
UBH35−10BC	10	3.0	13.3
UBH35−12BC	12		14.4
UBH35−15BC	15		16.0
UBH35−20BC	20		18.7
UBH35−25BC	25		21.3

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBH35−8BP	8	2.0	9.5
UBH35−10BP	10	3.0	13.2
UBH35−12BP	12		14.3
UBH35−15BP	15		15.9
UBH35−20BP	20		18.6
UBH35−25BP	25		21.3

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



◇ UBH35−8BC, UBH35−8BP
△ UBH35−10BC, UBH35−10BP
◎ UBH35−12BC, UBH35−12BP
□ UBH35−15BC, UBH35−15BP
○ UBH35−20BC, UBH35−20BP
▲ UBH35−25BC, UBH35−25BP

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

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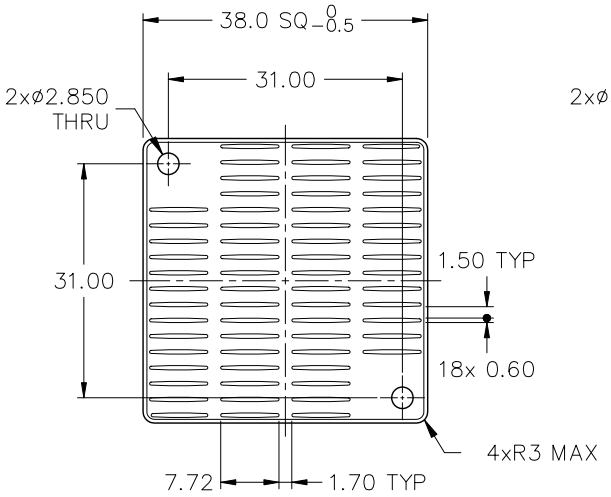
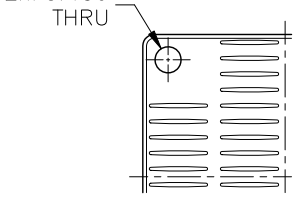
UBH38

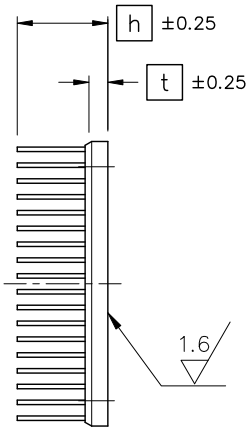
DIM

UBH38−XXBC
FOR ø2.500 ±0.05 PCB HOLES



UBH38−XXBP
FOR ø3.175 ±0.05 PCB HOLES





FOR ø2.500 ±0.05 PCB HOLES

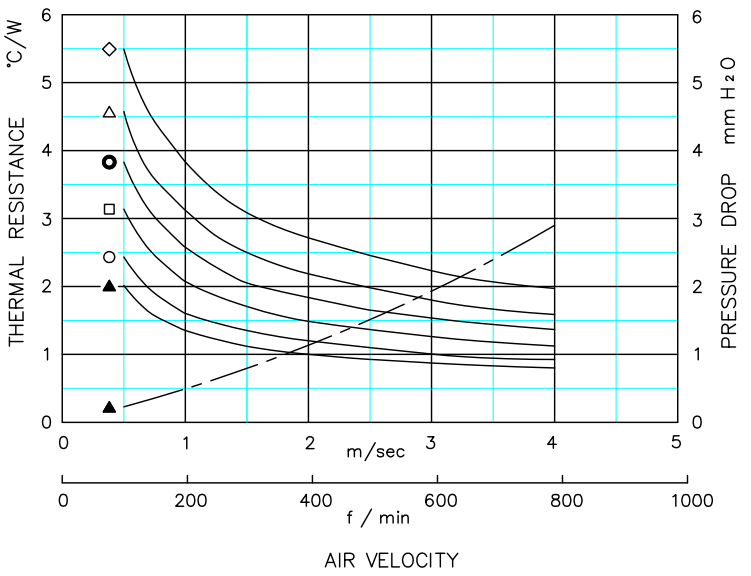
MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBH38−8BC	8	2.0	11.6
UBH38−10BC	10	3.0	16.1
UBH38−12BC	12		17.5
UBH38−15BC	15		19.5
UBH38−20BC	20		23.0
UBH38−25BC	25		26.4

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBH38−8BP	8	2.0	11.6
UBH38−10BP	10	3.0	16.1
UBH38−12BP	12		17.4
UBH38−15BP	15		19.5
UBH38−20BP	20		22.9
UBH38−25BP	25		26.3

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



◇ UBH38−8BC, UBH38−8BP
△ UBH38−10BC, UBH38−10BP
◎ UBH38−12BC, UBH38−12BP
□ UBH38−15BC, UBH38−15BP
○ UBH38−20BC, UBH38−20BP
▲ UBH38−25BC, UBH38−25BP

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

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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ALPHA

Low Pressure Drop and
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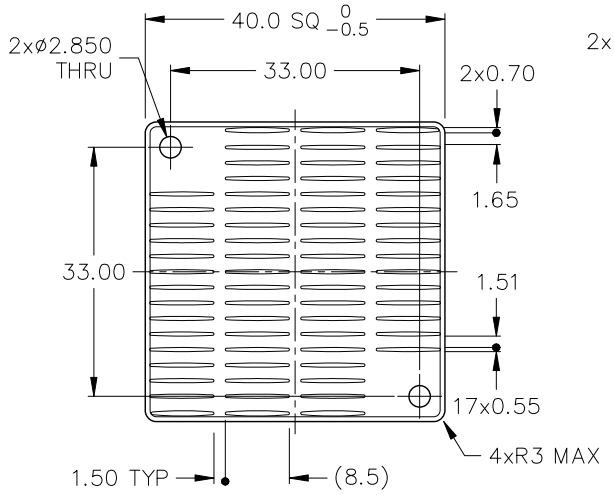
with attachment holes

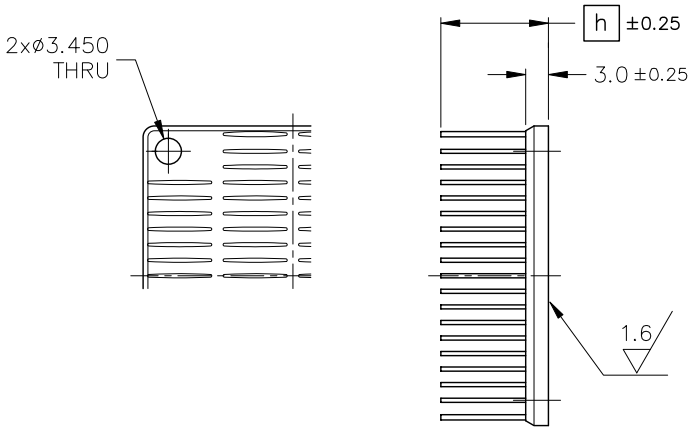
UBH 40

DIM

UBH40−XXBC
FOR ø2.500 ±0.05 PCB HOLES



UBH40−XXBP
FOR ø3.175 ±0.05 PCB HOLES



FOR ø2.500 ±0.05 PCB HOLES

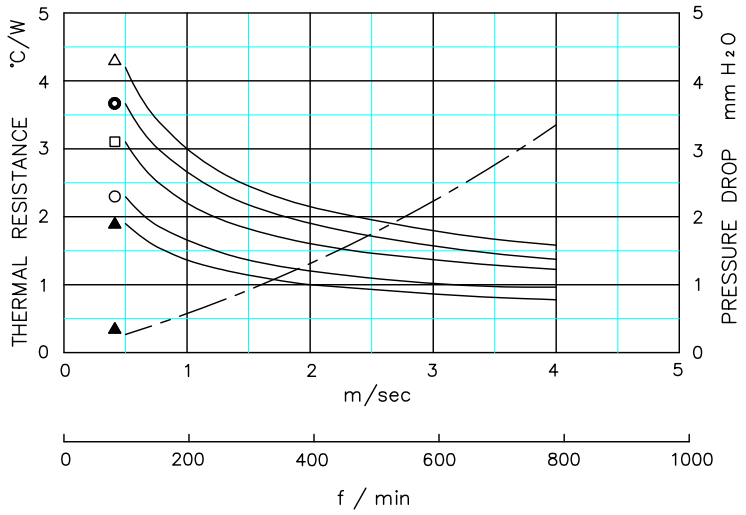
MODEL	HEIGHT h	WEIGHT(g)
UBH40−10BC	10	17.8
UBH40−12BC	12	19.4
UBH40−15BC	15	21.6
UBH40−20BC	20	25.4
UBH40−25BC	25	29.2

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	WEIGHT(g)
UBH40−10BP	10	17.9
UBH40−12BP	12	19.5
UBH40−15BP	15	21.8
UBH40−20BP	20	25.8
UBH40−25BP	25	29.7

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



△ UBH40−10BC, UBH40−10BP
◎ UBH40−12BC, UBH40−12BP
□ UBH40−15BC, UBH40−15BP
○ UBH40−20BC, UBH40−20BP
▲ UBH40−25BC, UBH40−25BP

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

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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AIR VELOCITY: DUCTED CONDITION

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ALPHA

Low Pressure Drop and
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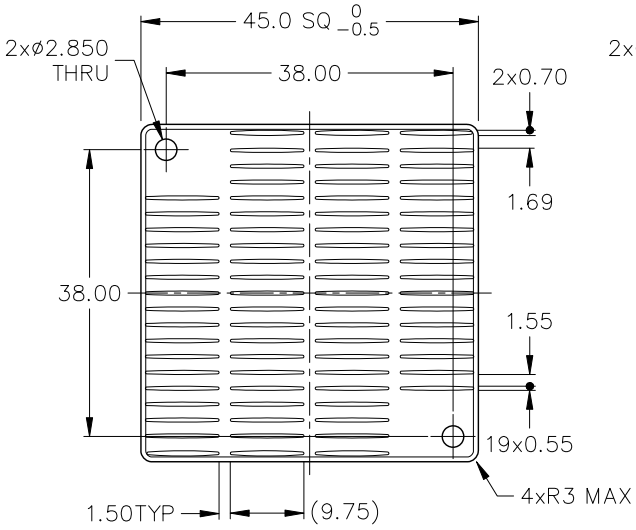
with attachment holes

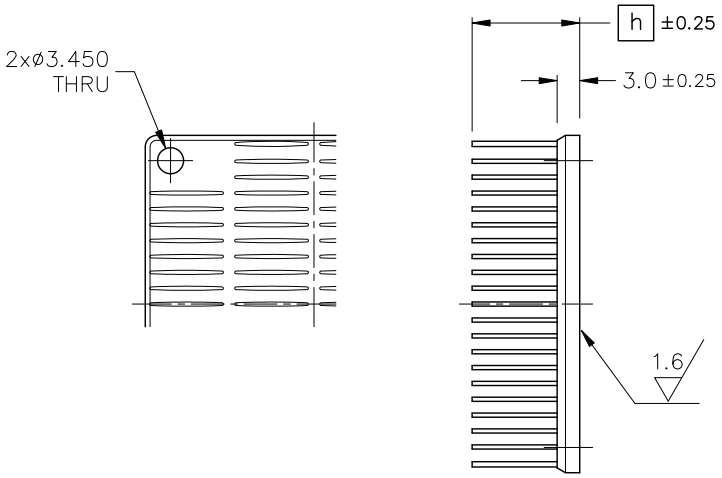
UBH 45

DIM

UBH45−XXBC
FOR ø2.500 ±0.05 PCB HOLES



UBH45−XXBP
FOR ø3.175 ±0.05 PCB HOLES



FOR ø2.500 ±0.05 PCB HOLES

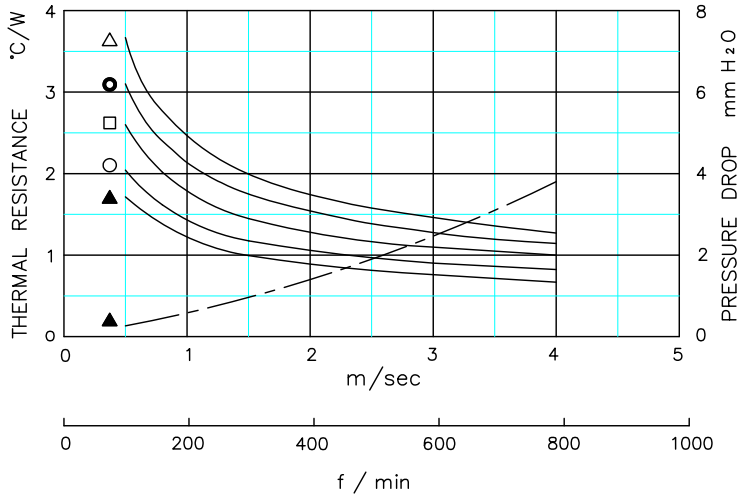
MODEL	HEIGHT h	WEIGHT(g)
UBH45−10BC	10	22.7
UBH45−12BC	12	24.7
UBH45−15BC	15	27.6
UBH45−20BC	20	32.5
UBH45−25BC	25	37.3

FOR ø3.175 ±0.05 PCB HOLES

MODEL	HEIGHT h	WEIGHT(g)
UBH45−10BP	10	22.9
UBH45−12BP	12	24.9
UBH45−15BP	15	27.9
UBH45−20BP	20	32.9
UBH45−25BP	25	37.9

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



△ UBH45−10BC, UBH45−10BP
◎ UBH45−12BC, UBH45−12BP
□ UBH45−15BC, UBH45−15BP
○ UBH45−20BC, UBH45−20BP
▲ UBH45−25BC, UBH45−25BP

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

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ALPHA

Low Pressure Drop and
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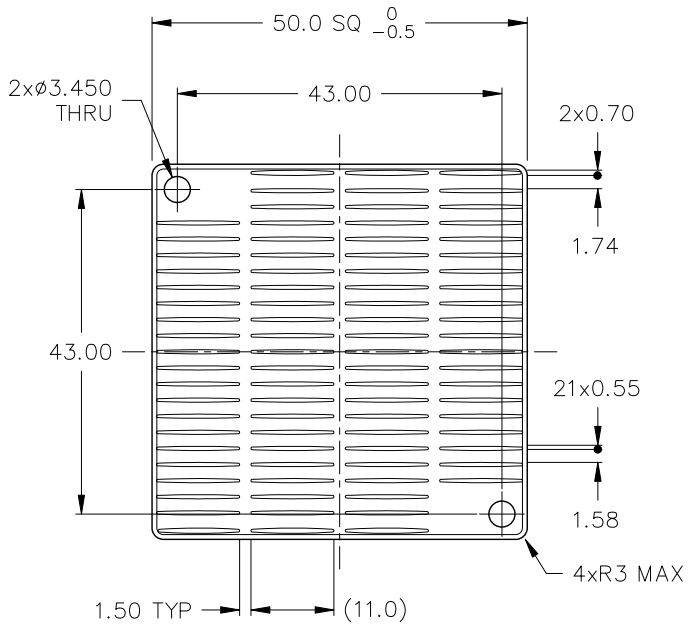
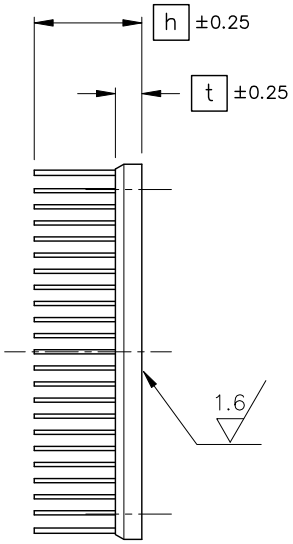
UBH50

DIM

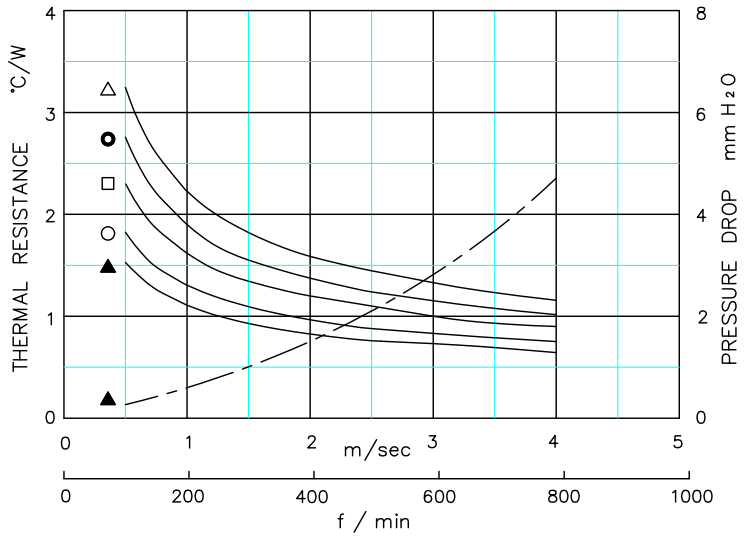




MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT(g)
UBH50−10BP	10	3.0	28.1
UBH50−12BP	12		30.6
UBH50−15BP	15	3.5	37.0
UBH50−20BP	20		43.1
UBH50−25BP	25		49.2

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



△ UBH50−10BP
○ UBH50−12BP
□ UBH50−15BP
○ UBH50−20BP
▲ UBH50−25BP

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

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AIR VELOCITY: DUCTED CONDITION

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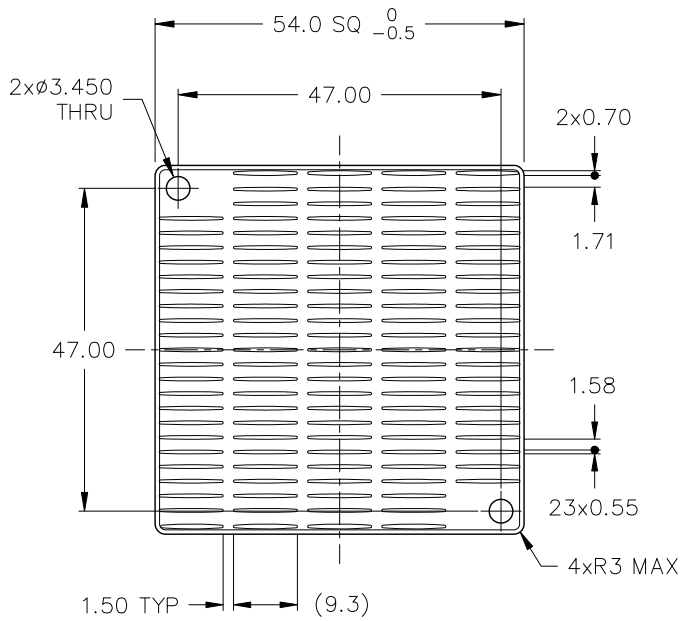
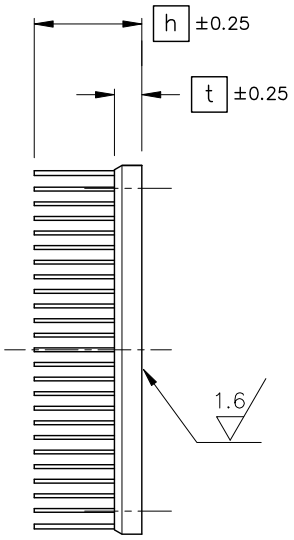
Low Pressure Drop and Low Thermal Resistance Heat Sink with attachment holes

UBH54

DIM

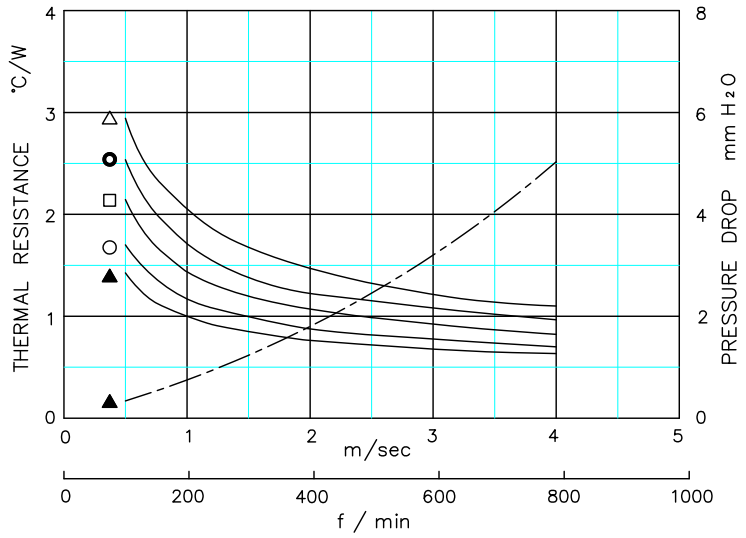




MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBH54−10BP	10	3.0	32.9
UBH54−12BP	12		35.7
UBH54−15BP	15	4.0	46.3
UBH54−20BP	20		53.5
UBH54−25BP	25		60.6

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



△ UBH54−10BP
○ UBH54−12BP
□ UBH54−15BP
○ UBH54−20BP
▲ UBH54−25BP

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

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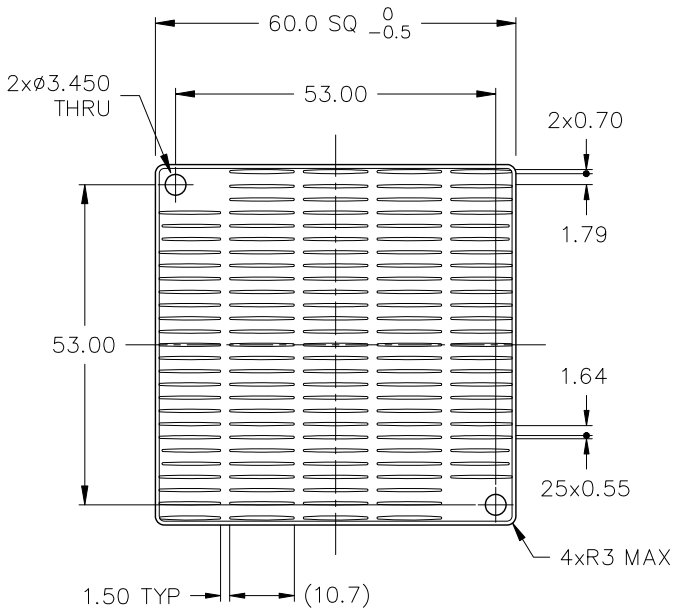
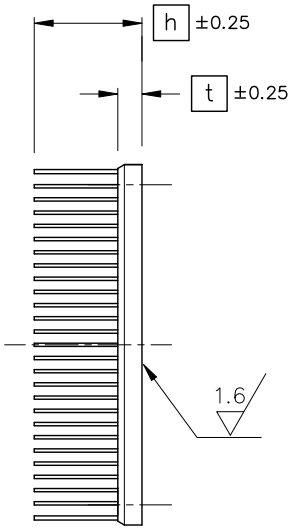
ALPHA

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

UBH 60

DIM

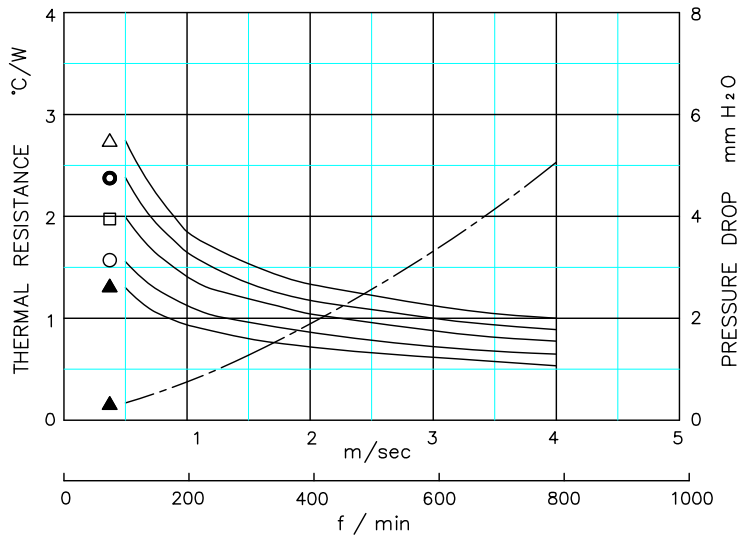




MODEL	HEIGHT h	THICKNESS t	WEIGHT(g)
UBH60−10BP	10	3.0	40.9
UBH60−12BP	12		44.4
UBH60−15BP	15	4.0	57.6
UBH60−20BP	20		66.5
UBH60−25BP	25		75.4

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



△ UBH60−10BP
○ UBH60−12BP
□ UBH60−15BP
○ UBH60−20BP
▲ UBH60−25BP

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

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

AIR VELOCITY: DUCTED CONDITION

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ALPHA

Low Pressure Drop and
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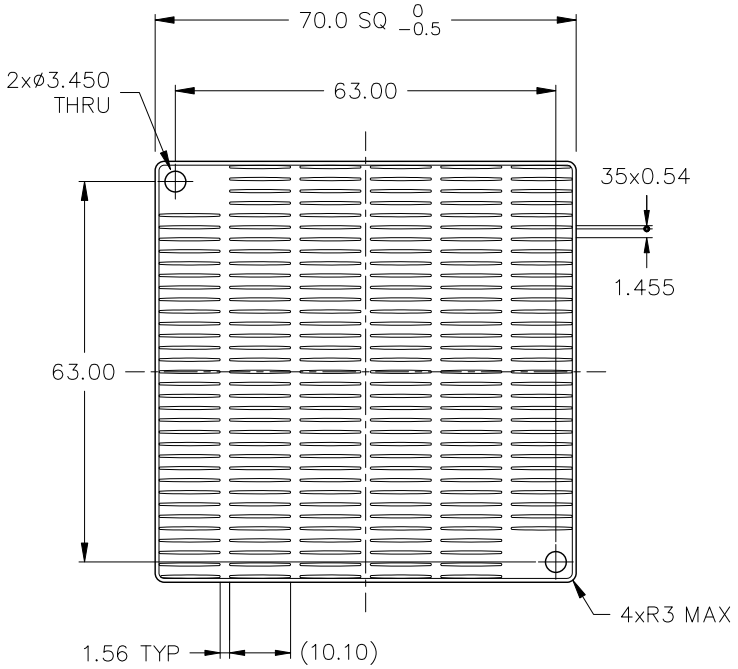
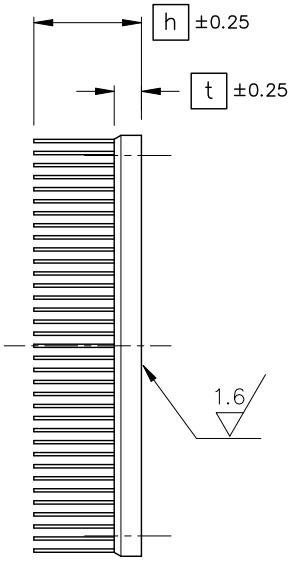
with attachment holes

UBH 70

DIM

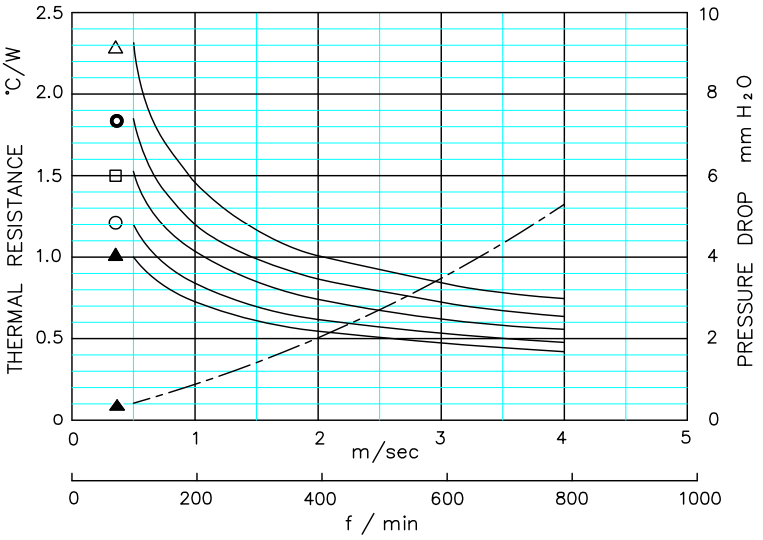




MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT(g)
UBH70−10BP	10	3.0	57.0
UBH70−12BP	12		62.2
UBH70−15BP	15	4.0	80.4
UBH70−20BP	20		93.4
UBH70−25BP	25		106.4

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



△ UBH70−10BP
○ UBH70−12BP
□ UBH70−15BP
○ UBH70−20BP
▲ UBH70−25BP

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

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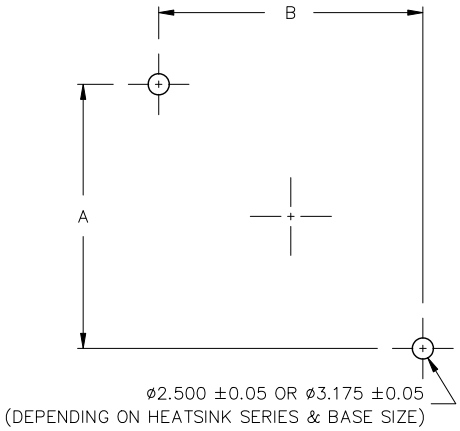
REF

PCB HOLE LAYOUT



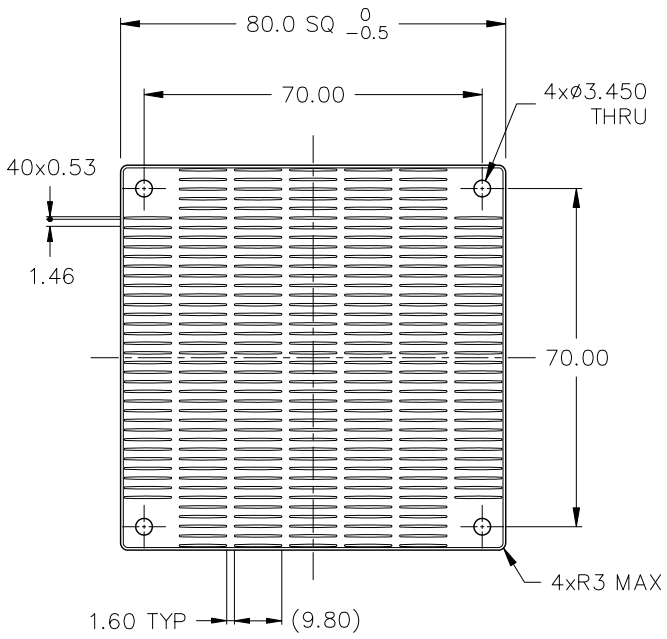
MODEL	A	B
LPDH25, UBH25, ZH25	18.0	18.0
LPDH30, UBH30, ZH30	23.0	23.0
LPDH35, UBH35, ZH35	28.0	28.0
LPDH40, UBH40, ZH40	33.0	33.0
LPDH45, UBH45, ZH45	38.0	38.0
LPDH50, UBH50, ZH50, FFH50	43.0	43.0
LPDH54, UBH54, ZH54, FFH54	47.0	47.0
LPDH60, UBH60, ZH60	53.0	53.0
LPDH70, UBH70	63.0	63.0

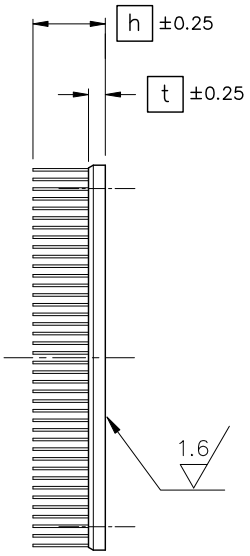
ALPHA

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

UBP 80

DIM

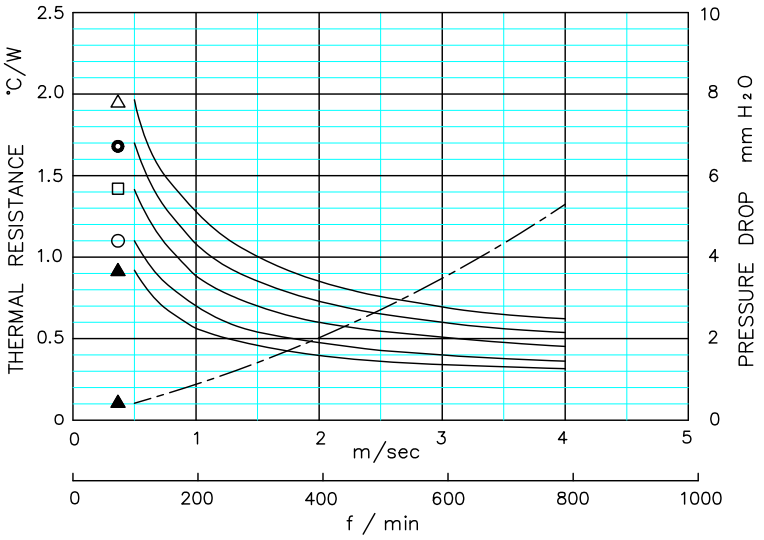




MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT(g)
UBP80−10B	10	3.5	81
UBP80−12B	12		87
UBP80−15B	15		97
UBP80−20B	20	5.0	134
UBP80−25B	25		150

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



△ UBP80−10B
○ UBP80−12B
□ UBP80−15B
○ UBP80−20B
▲ UBP80−25B

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

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ALPHA

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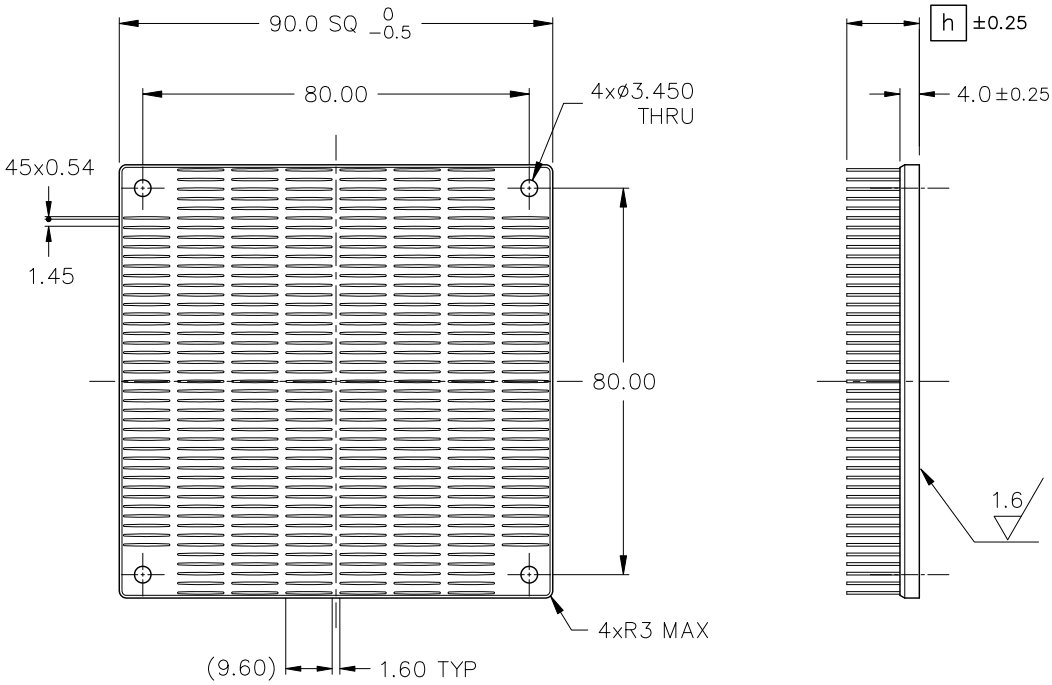
UBP 90

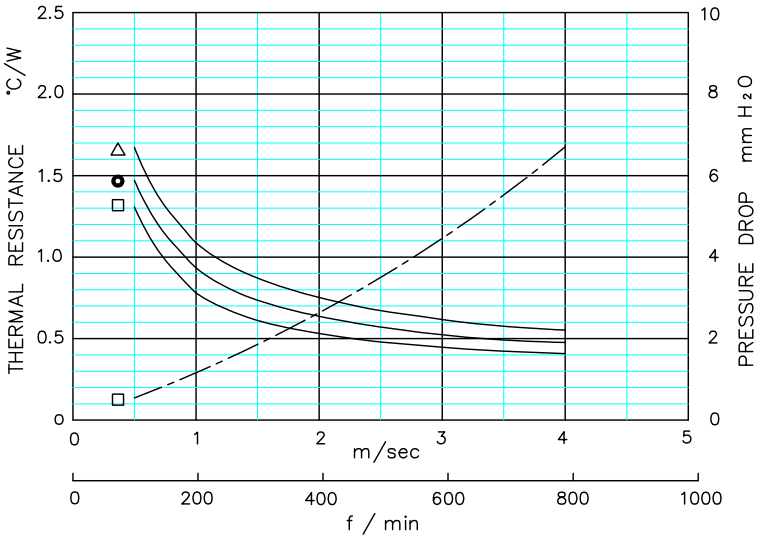
DIM



MODEL	HEIGHT h	WEIGHT(g)
UBP90−10B	10	112
UBP90−12B	12	120
UBP90−15B	15	134

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



△ UBP90−10B
○ UBP90−12B
□ UBP90−15B

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

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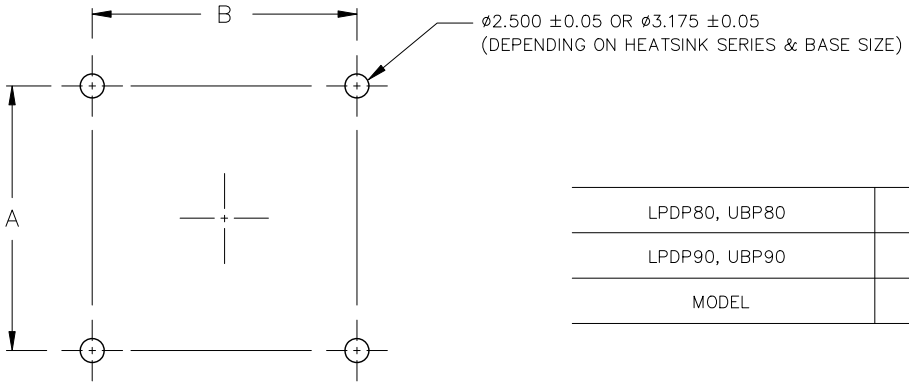
PCB HOLE LAYOUT



MODEL	A	B
LPDP80, UBP80	70.0	70.0
LPDP90, UBP90	80.0	80.0