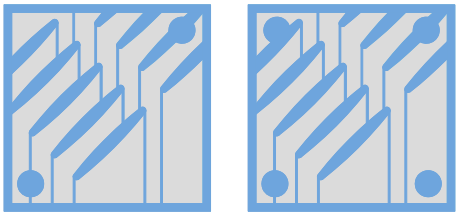


# LPDM Series
# LPDH Series
# LPDP Series

Low Pressure Drop Heat Sink
with Attachment Holes

ALPHA

ALPHA

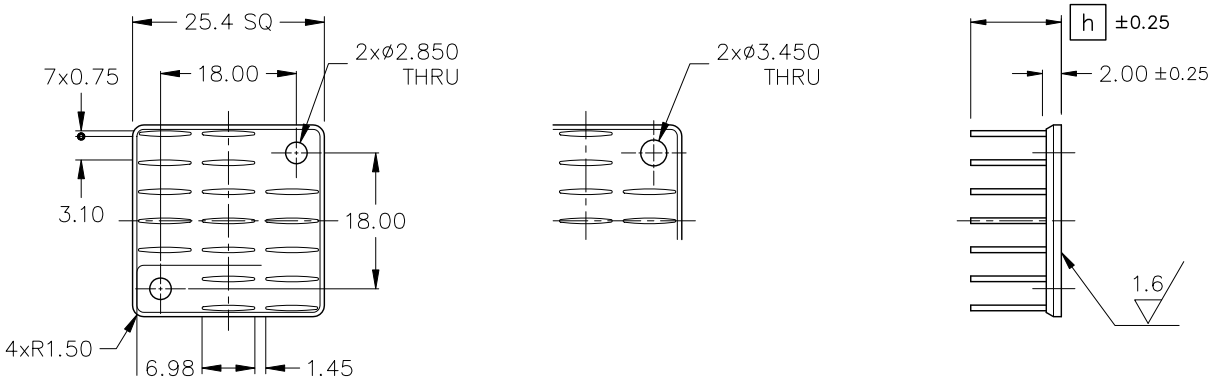
Low Pressure Drop Heat Sink
with attachment holes

# LPDM25

DIM

LPDM25−XXBC
FOR ø2.500 ±0.05 PCB HOLES

LPDM25−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

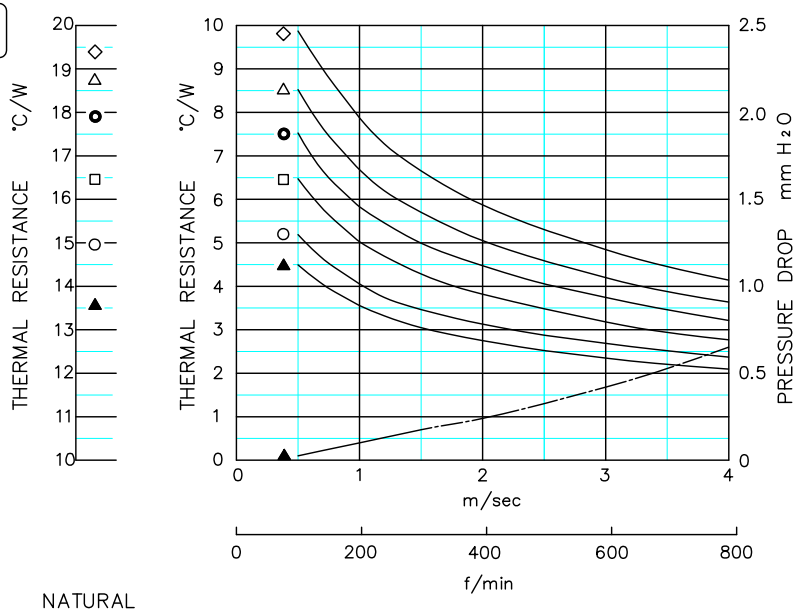
| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDM25−8BC | 8 | 4.5 |
| LPDM25−10BC | 10 | 4.9 |
| LPDM25−12BC | 12 | 5.3 |
| LPDM25−15BC | 15 | 5.9 |
| LPDM25−20BC | 20 | 6.8 |
| LPDM25−25BC | 25 | 7.8 |

FOR ø3.175 ±0.05 PCB HOLES

| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDM25−8BP | 8 | 4.5 |
| LPDM25−10BP | 10 | 4.9 |
| LPDM25−12BP | 12 | 5.2 |
| LPDM25−15BP | 15 | 5.8 |
| LPDM25−20BP | 20 | 6.8 |
| LPDM25−25BP | 25 | 7.8 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



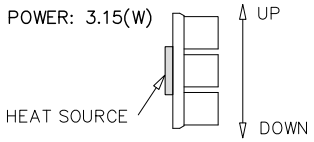

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

◇ LPDM25−8BC, LPDM25−8BP
△ LPDM25−10BC, LPDM25−10BP
◎ LPDM25−12BC, LPDM25−12BP
□ LPDM25−15BC, LPDM25−15BP
○ LPDM25−20BC, LPDM25−20BP
▲ LPDM25−25BC, LPDM25−25BP

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

NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 3.15(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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

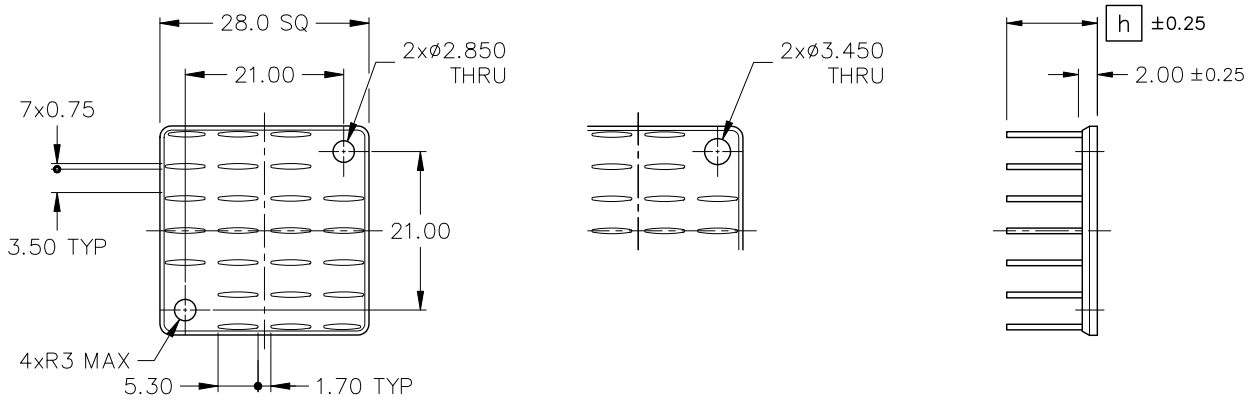
Low Pressure Drop Heat Sink
with attachment holes

# LPDM28

DIM

LPDM28−XXBC
FOR ø2.500 ±0.05 PCB HOLES

LPDM28−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

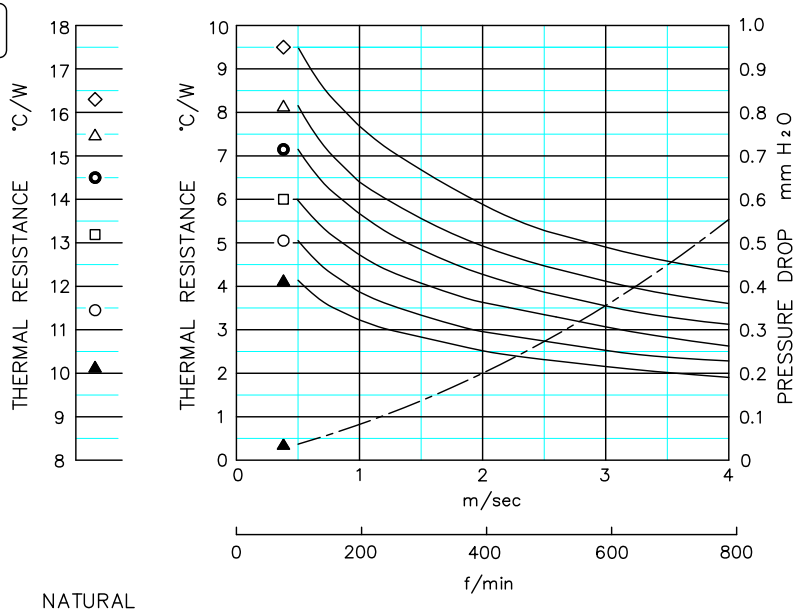
| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDM28−8BC | 8 | 5.2 |
| LPDM28−10BC | 10 | 5.6 |
| LPDM28−12BC | 12 | 6.0 |
| LPDM28−15BC | 15 | 6.6 |
| LPDM28−20BC | 20 | 7.7 |
| LPDM28−25BC | 25 | 8.7 |

FOR ø3.175 ±0.05 PCB HOLES

| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDM28−8BP | 8 | 5.2 |
| LPDM28−10BP | 10 | 5.6 |
| LPDM28−12BP | 12 | 6.0 |
| LPDM28−15BP | 15 | 6.6 |
| LPDM28−20BP | 20 | 7.7 |
| LPDM28−25BP | 25 | 8.7 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



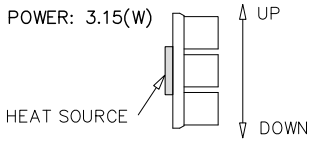

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

◇ LPDM28−8BC, LPDM28−8BP
△ LPDM28−10BC, LPDM28−10BP
◎ LPDM28−12BC, LPDM28−12BP
□ LPDM28−15BC, LPDM28−15BP
○ LPDM28−20BC, LPDM28−20BP
▲ LPDM28−25BC, LPDM28−25BP

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

NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 3.15(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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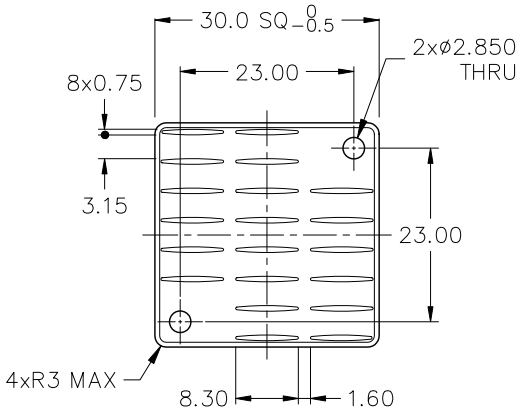
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

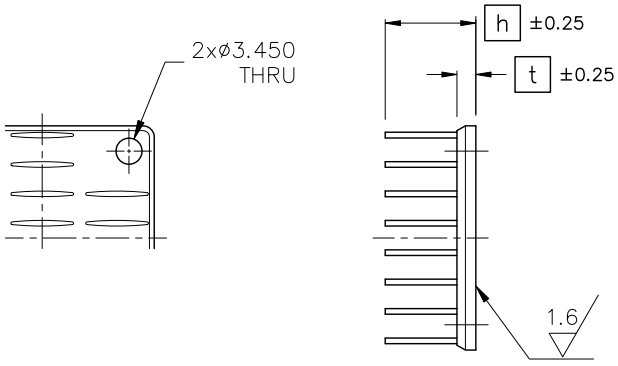
# LPDM30

DIM

LPDM30−XXBC
FOR ø2.500 ±0.05 PCB HOLES




LPDM30−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDM30−8BC | 8 | 2.0 | 6.2 |
| LPDM30−10BC | 10 | 2.5 | 7.8 |
| LPDM30−12BC | 12 | | 8.4 |
| LPDM30−15BC | 15 | | 9.2 |
| LPDM30−20BC | 20 | | 10.6 |
| LPDM30−25BC | 25 | | 11.9 |
| LPDM30−30BC | 30 | | 13.2 |
| LPDM30−35BC | 35 | | 14.6 |

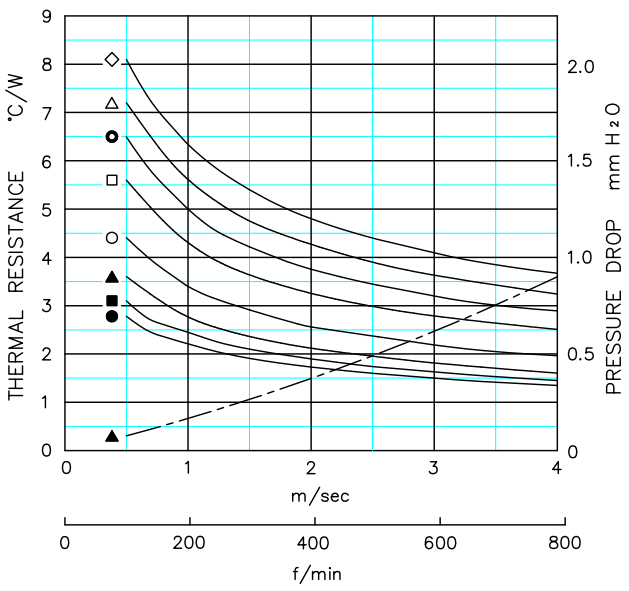
FOR ø3.175 ±0.05 PCB HOLES

| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDM30−8BP | 8 | 2.0 | 6.2 |
| LPDM30−10BP | 10 | 2.5 | 7.8 |
| LPDM30−12BP | 12 | | 8.3 |
| LPDM30−15BP | 15 | | 9.2 |
| LPDM30−20BP | 20 | | 10.5 |
| LPDM30−25BP | 25 | | 11.9 |
| LPDM30−30BP | 30 | | 13.2 |
| LPDM30−35BP | 35 | | 14.5 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA

NATURAL
CONVECTION

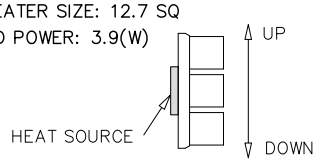



AIR VELOCITY: DUCTED CONDITION

◇ LPDM30−8BC, LPDM30−8BP
△ LPDM30−10BC, LPDM30−10BP
◎ LPDM30−12BC, LPDM30−12BP
□ LPDM30−15BC, LPDM30−15BP
○ LPDM30−20BC, LPDM30−20BP
▲ LPDM30−25BC, LPDM30−25BP
■ LPDM30−30BC, LPDM30−30BP
● LPDM30−35BC, LPDM30−35BP

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

NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 3.9(W)




NOTE ORIENTATION OF HEAT SINK USED
FOR NATURAL CONVECTION TESTING

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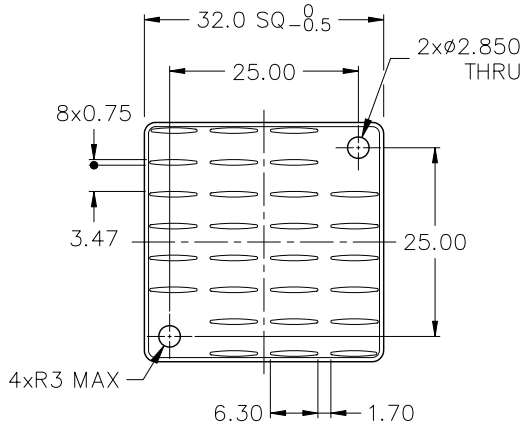
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

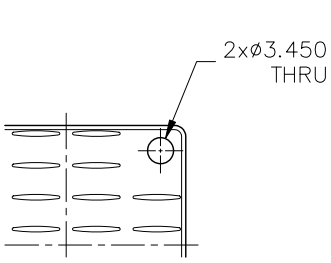
# LPDM32

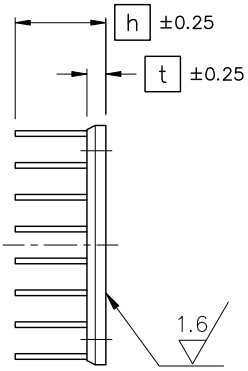
DIM

LPDM32−XXBC
FOR ø2.500 ±0.05 PCB HOLES




LPDM32−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDM32−8BC | 8 | 2.0 | 7.0 |
| LPDM32−10BC | 10 | 2.5 | 8.7 |
| LPDM32−12BC | 12 | | 9.3 |
| LPDM32−15BC | 15 | | 10.2 |
| LPDM32−20BC | 20 | | 11.6 |
| LPDM32−25BC | 25 | | 13.0 |
| LPDM32−30BC | 30 | | 14.4 |
| LPDM32−35BC | 35 | | 15.9 |

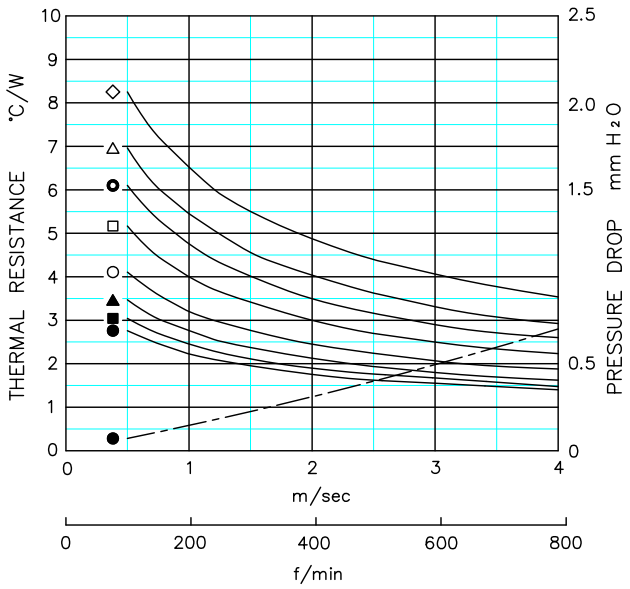
FOR ø3.175 ±0.05 PCB HOLES

| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDM32−8BP | 8 | 2.0 | 6.9 |
| LPDM32−10BP | 10 | 2.5 | 8.7 |
| LPDM32−12BP | 12 | | 9.3 |
| LPDM32−15BP | 15 | | 10.1 |
| LPDM32−20BP | 20 | | 11.5 |
| LPDM32−25BP | 25 | | 13.0 |
| LPDM32−30BP | 30 | | 14.4 |
| LPDM32−35BP | 35 | | 15.8 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA

NATURAL
CONVECTION

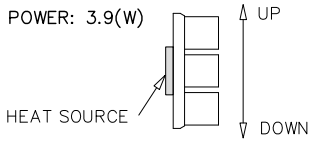



AIR VELOCITY: DUCTED CONDITION

◇ LPDM32−8BC, LPDM32−8BP
△ LPDM32−10BC, LPDM32−10BP
◎ LPDM32−12BC, LPDM32−12BP
□ LPDM32−15BC, LPDM32−15BP
○ LPDM32−20BC, LPDM32−20BP
▲ LPDM32−25BC, LPDM32−25BP
■ LPDM32−30BC, LPDM32−30BP
● LPDM32−35BC, LPDM32−35BP

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

NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 3.9(W)




NOTE ORIENTATION OF HEAT SINK USED
FOR NATURAL CONVECTION TESTING

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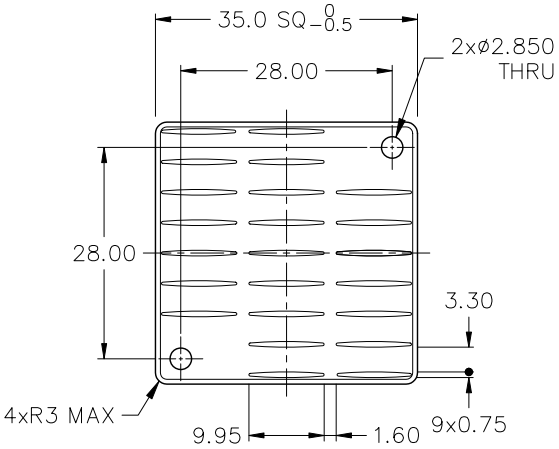
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

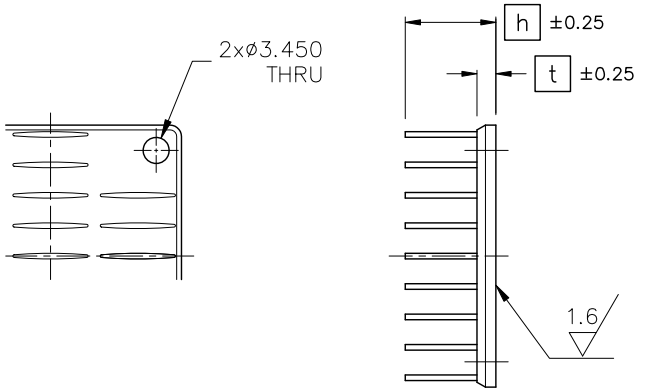
# LPDM35

DIM

LPDM35−XXBC
FOR ø2.500 ±0.05 PCB HOLES




LPDM35−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

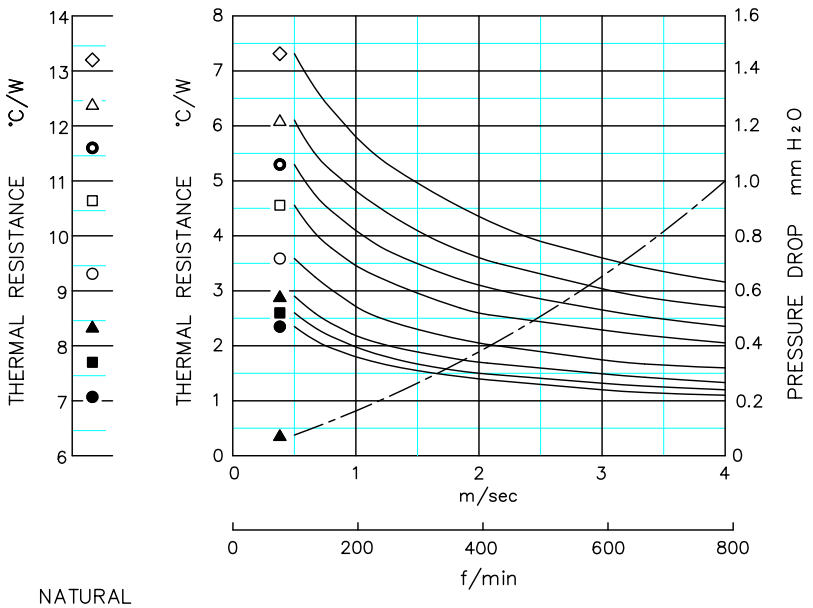
| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDM35−8BC | 8 | 2.0 | 8.6 |
| LPDM35−10BC | 10 | 3.0 | 12.2 |
| LPDM35−12BC | 12 | | 13.0 |
| LPDM35−15BC | 15 | | 14.1 |
| LPDM35−20BC | 20 | | 16.0 |
| LPDM35−25BC | 25 | | 17.9 |
| LPDM35−30BC | 30 | | 19.7 |
| LPDM35−35BC | 35 | | 21.6 |

FOR ø3.175 ±0.05 PCB HOLES

| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDM35−8BP | 8 | 2.0 | 8.6 |
| LPDM35−10BP | 10 | 3.0 | 12.2 |
| LPDM35−12BP | 12 | | 12.9 |
| LPDM35−15BP | 15 | | 14.0 |
| LPDM35−20BP | 20 | | 15.9 |
| LPDM35−25BP | 25 | | 17.8 |
| LPDM35−30BP | 30 | | 19.6 |
| LPDM35−35BP | 35 | | 21.5 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



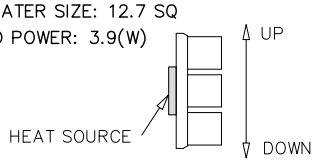

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

◇ LPDM35−8BC, LPDM35−8BP
△ LPDM35−10BC, LPDM35−10BP
◎ LPDM35−12BC, LPDM35−12BP
□ LPDM35−15BC, LPDM35−15BP
○ LPDM35−20BC, LPDM35−20BP
▲ LPDM35−25BC, LPDM35−25BP
■ LPDM35−30BC, LPDM35−30BP
● LPDM35−35BC, LPDM35−35BP

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

NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 3.9(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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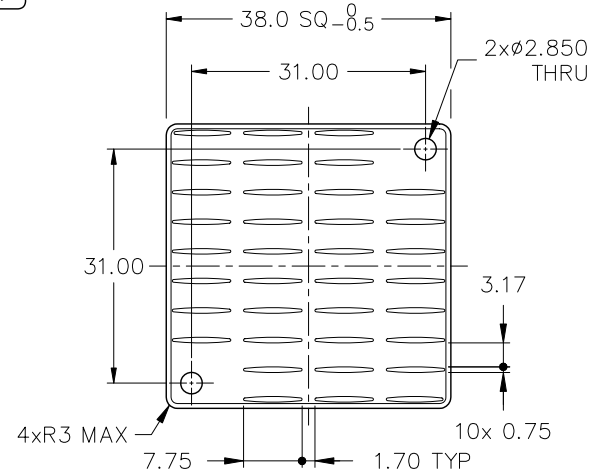
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

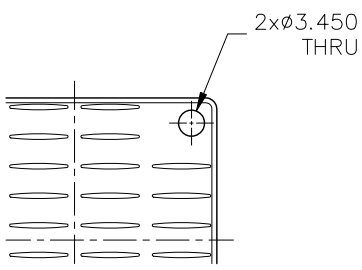
# LPDM38

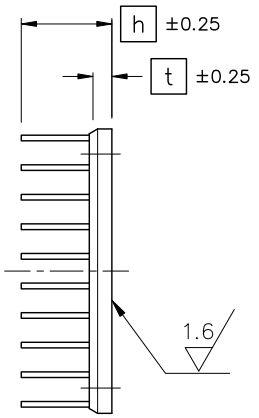
DIM

LPDM38−XXBC
FOR ø2.500 ±0.05 PCB HOLES




LPDM38−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

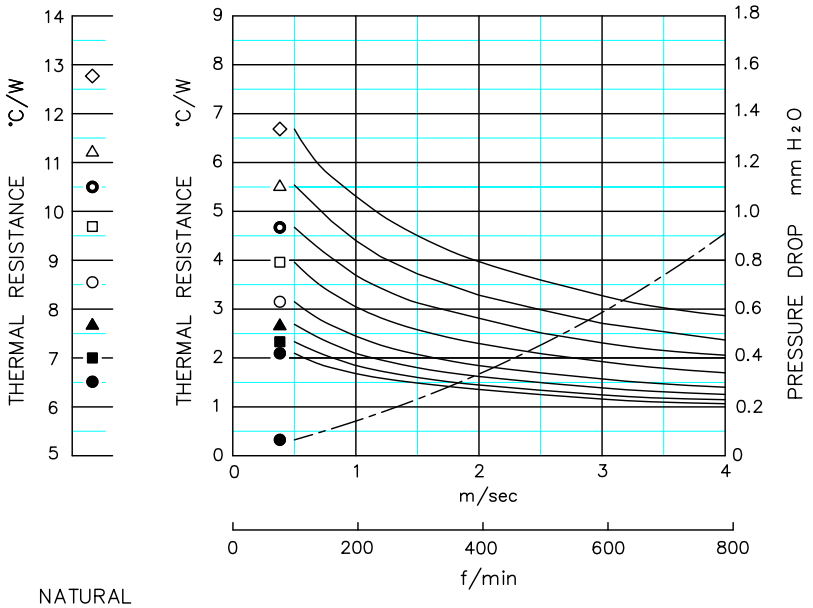
| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDM38−8BC | 8 | 2.0 | 10.2 |
| LPDM38−10BC | 10 | 3.0 | 14.4 |
| LPDM38−12BC | 12 | | 15.3 |
| LPDM38−15BC | 15 | | 16.7 |
| LPDM38−20BC | 20 | | 19.0 |
| LPDM38−25BC | 25 | | 21.3 |
| LPDM38−30BC | 30 | | 23.5 |
| LPDM38−35BC | 35 | | 25.8 |

FOR ø3.175 ±0.05 PCB HOLES

| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDM38−8BP | 8 | 2.0 | 10.2 |
| LPDM38−10BP | 10 | 3.0 | 14.4 |
| LPDM38−12BP | 12 | | 15.3 |
| LPDM38−15BP | 15 | | 16.7 |
| LPDM38−20BP | 20 | | 18.9 |
| LPDM38−25BP | 25 | | 21.2 |
| LPDM38−30BP | 30 | | 23.5 |
| LPDM38−35BP | 35 | | 25.8 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



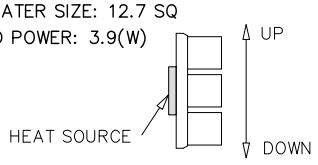

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

◇ LPDM38−8BC, LPDM38−8BP
△ LPDM38−10BC, LPDM38−10BP
◎ LPDM38−12BC, LPDM38−12BP
□ LPDM38−15BC, LPDM38−15BP
○ LPDM38−20BC, LPDM38−20BP
▲ LPDM38−25BC, LPDM38−25BP
■ LPDM38−30BC, LPDM38−30BP
● LPDM38−35BC, LPDM38−35BP

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

NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 3.9(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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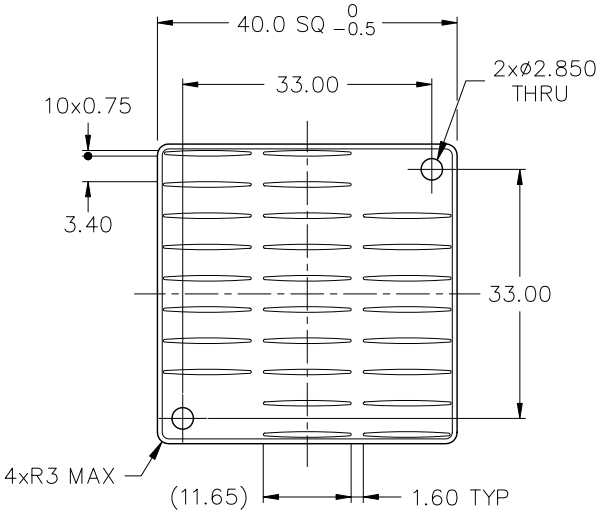
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

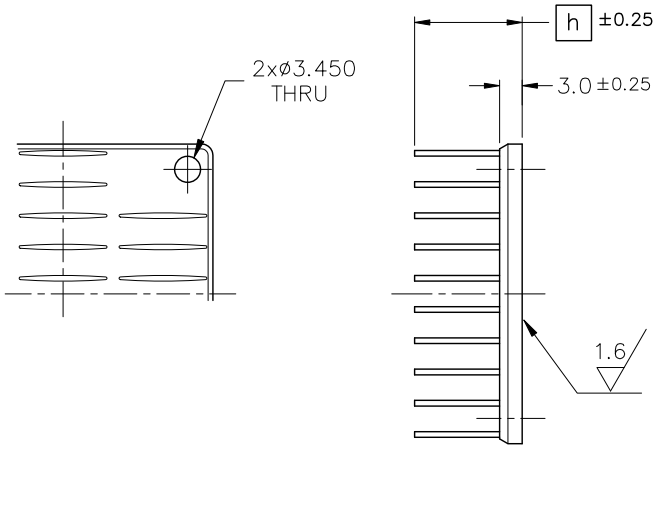
# LPDM40

DIM

LPDM40−XXBC
FOR ø2.500 ±0.05 PCB HOLES




LPDM40−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

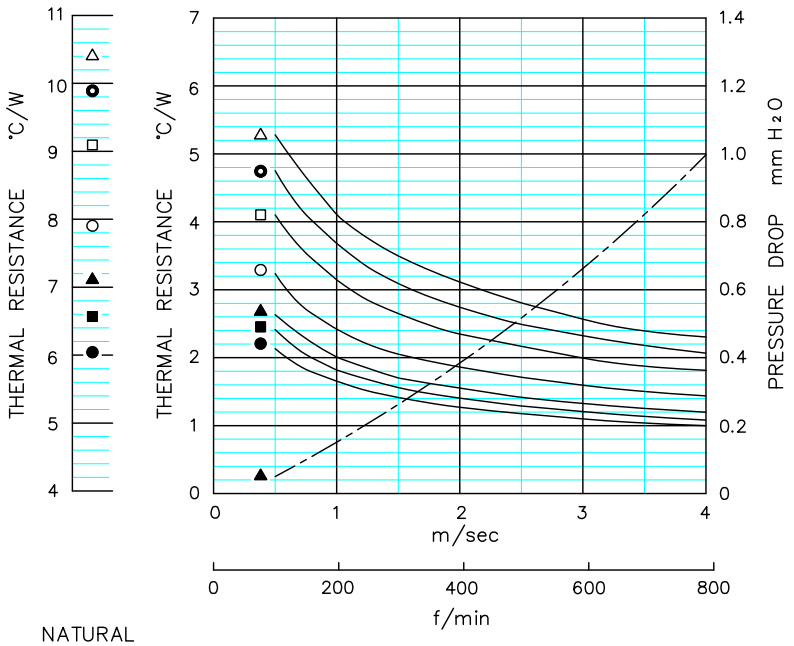
| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDM40−10BC | 10 | 16.0 |
| LPDM40−12BC | 12 | 17.0 |
| LPDM40−15BC | 15 | 18.5 |
| LPDM40−20BC | 20 | 21.0 |
| LPDM40−25BC | 25 | 23.5 |
| LPDM40−30BC | 30 | 26.0 |
| LPDM40−35BC | 35 | 28.5 |

FOR ø3.175 ±0.05 PCB HOLES

| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDM40−10BP | 10 | 16.0 |
| LPDM40−12BP | 12 | 17.0 |
| LPDM40−15BP | 15 | 18.5 |
| LPDM40−20BP | 20 | 20.9 |
| LPDM40−25BP | 25 | 23.4 |
| LPDM40−30BP | 30 | 25.9 |
| LPDM40−35BP | 35 | 28.4 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



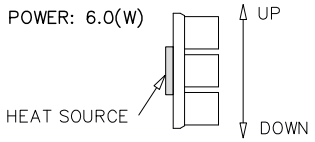

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

△ LPDM40−10BC, LPDM40−10BP
◎ LPDM40−12BC, LPDM40−12BP
□ LPDM40−15BC, LPDM40−15BP
○ LPDM40−20BC, LPDM40−20BP
▲ LPDM40−25BC, LPDM40−25BP
■ LPDM40−30BC, LPDM40−30BP
● LPDM40−35BC, LPDM40−35BP

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

NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 6.0(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.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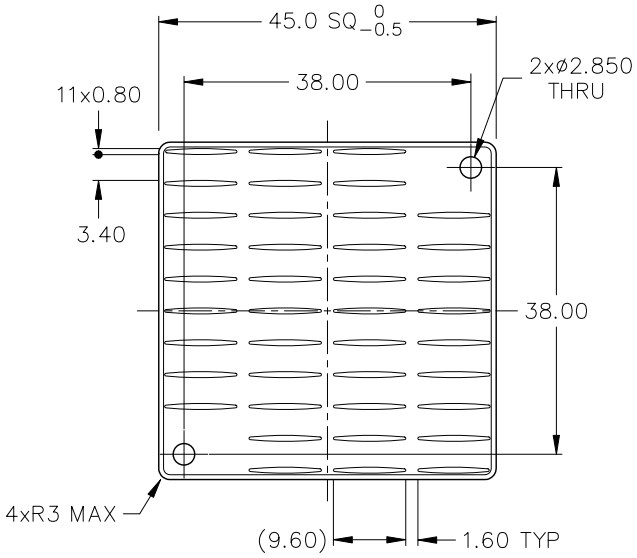
Low Pressure Drop Heat Sink
with attachment holes

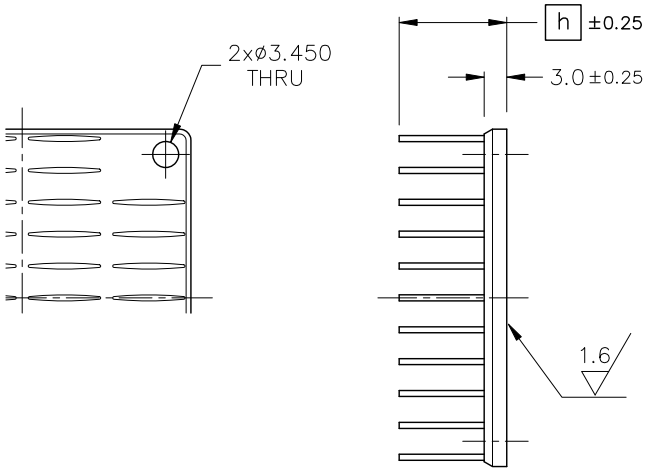
# LPDM45

DIM

LPDM45−XXBC
FOR ø2.500 ±0.05 PCB HOLES




LPDM45−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

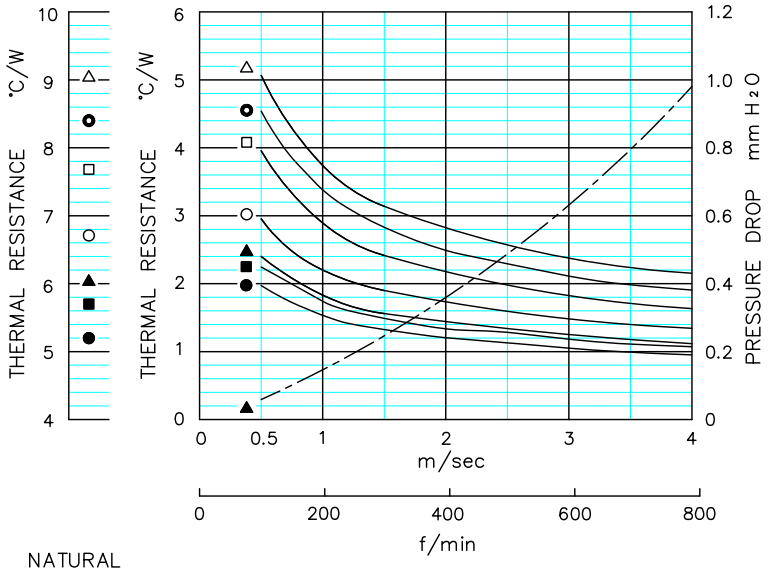
| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDM45−10BC | 10 | 20.6 |
| LPDM45−12BC | 12 | 21.9 |
| LPDM45−15BC | 15 | 23.9 |
| LPDM45−20BC | 20 | 27.2 |
| LPDM45−25BC | 25 | 30.5 |
| LPDM45−30BC | 30 | 33.8 |
| LPDM45−35BC | 35 | 37.1 |

FOR ø3.175 ±0.05 PCB HOLES

| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDM45−10BP | 10 | 20.5 |
| LPDM45−12BP | 12 | 21.8 |
| LPDM45−15BP | 15 | 23.8 |
| LPDM45−20BP | 20 | 27.1 |
| LPDM45−25BP | 25 | 30.4 |
| LPDM45−30BP | 30 | 33.7 |
| LPDM45−35BP | 35 | 37.1 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



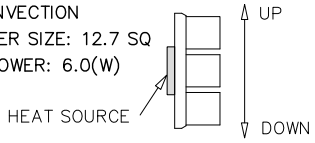

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

△ LPDM45−10BC, LPDM45−10BP
○ LPDM45−12BC, LPDM45−12BP
□ LPDM45−15BC, LPDM45−15BP
○ LPDM45−20BC, LPDM45−20BP
▲ LPDM45−25BC, LPDM45−25BP
■ LPDM45−30BC, LPDM45−30BP
● LPDM45−35BC, LPDM45−35BP

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

NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 6.0(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.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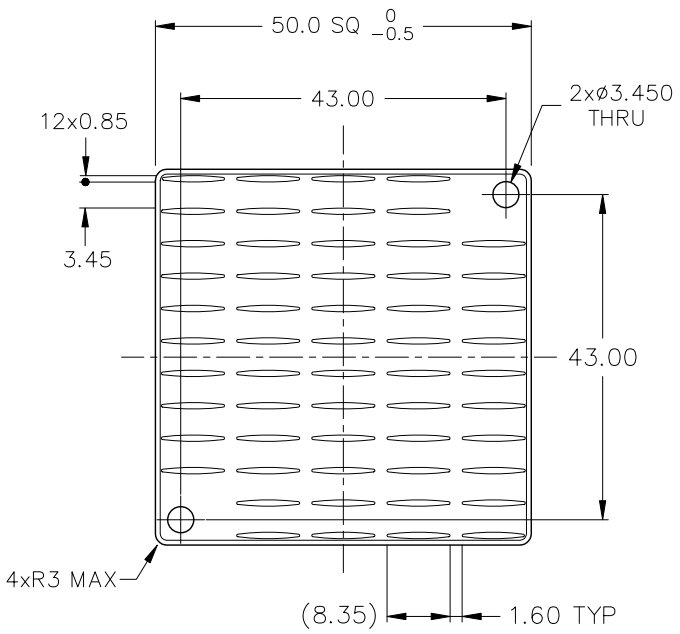
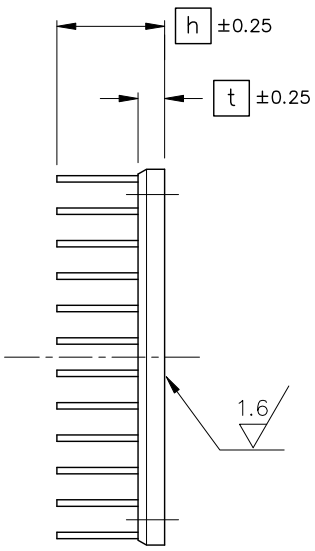
Low Pressure Drop Heat Sink
with attachment holes

# LPDM50

DIM

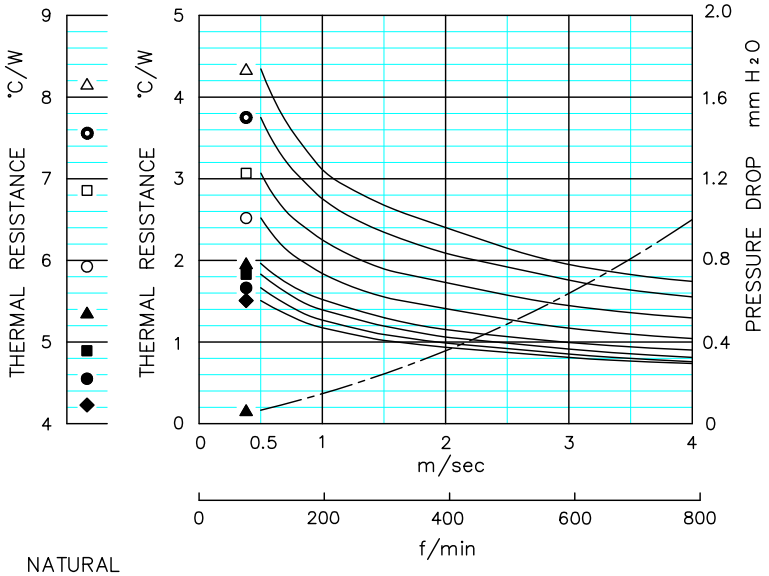



| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDM50−10BP | 10 | 3.0 | 25.6 |
| LPDM50−12BP | 12 | | 27.2 |
| LPDM50−15BP | 15 | 3.5 | 32.6 |
| LPDM50−20BP | 20 | | 36.8 |
| LPDM50−25BP | 25 | | 41.0 |
| LPDM50−30BP | 30 | | 45.7 |
| LPDM50−35BP | 35 | | 50.0 |
| LPDM50−40BP | 40 | | 54.2 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



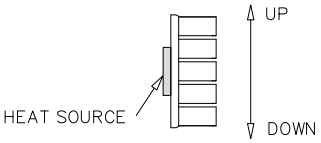

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

△ LPDM50−10BP ▲ LPDM50−25BP
○ LPDM50−12BP ■ LPDM50−30BP
□ LPDM50−15BP ● LPDM50−35BP
○ LPDM50−20BP ◆ LPDM50−40BP

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

● NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 8.0(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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Low Pressure Drop Heat Sink
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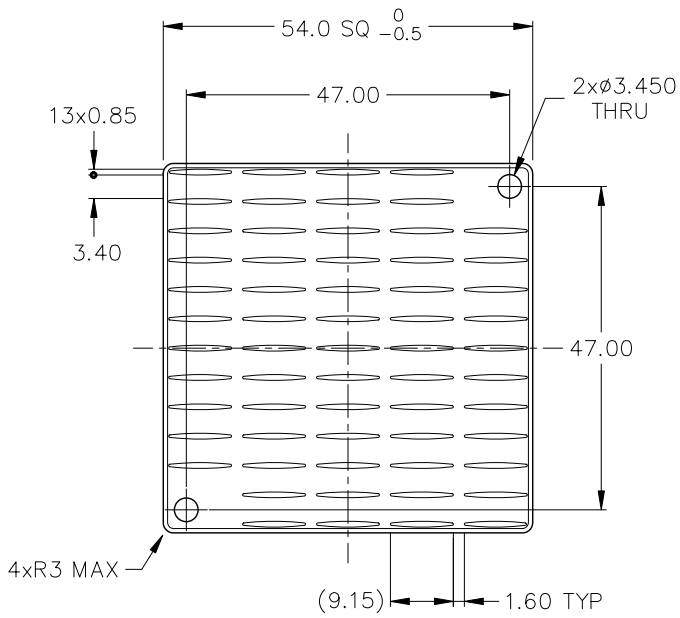
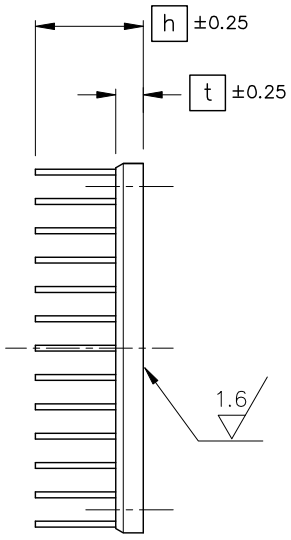
# LPDM54

DIM

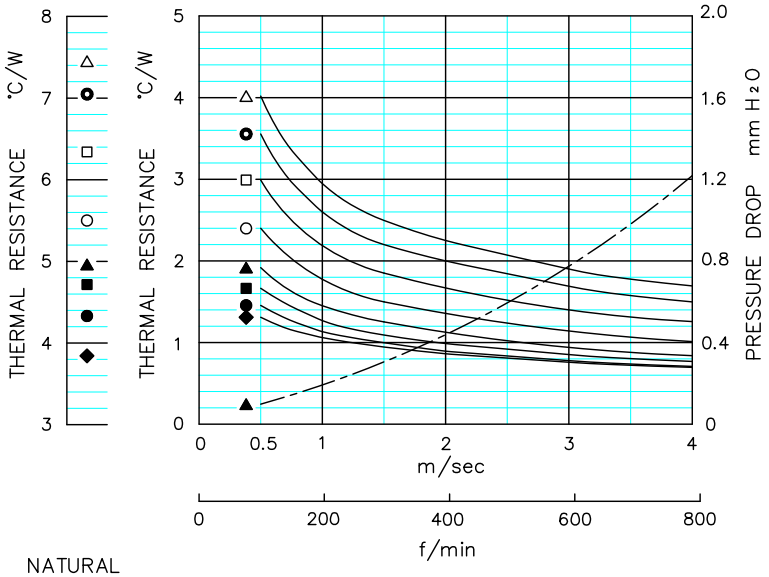



| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDM54−10BP | 10 | 3.0 | 30.0 |
| LPDM54−12BP | 12 | | 32.0 |
| LPDM54−15BP | 15 | 4.0 | 41.8 |
| LPDM54−20BP | 20 | | 46.8 |
| LPDM54−25BP | 25 | | 51.8 |
| LPDM54−30BP | 30 | | 57.4 |
| LPDM54−35BP | 35 | | 62.5 |
| LPDM54−40BP | 40 | | 67.5 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



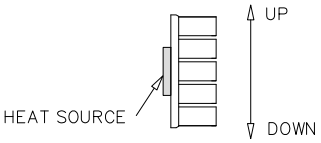

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

△ LPDM54−10BP ▲ LPDM54−25BP
○ LPDM54−12BP ■ LPDM54−30BP
□ LPDM54−15BP ● LPDM54−35BP
○ LPDM54−20BP ◆ LPDM54−40BP

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

● NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 8.0(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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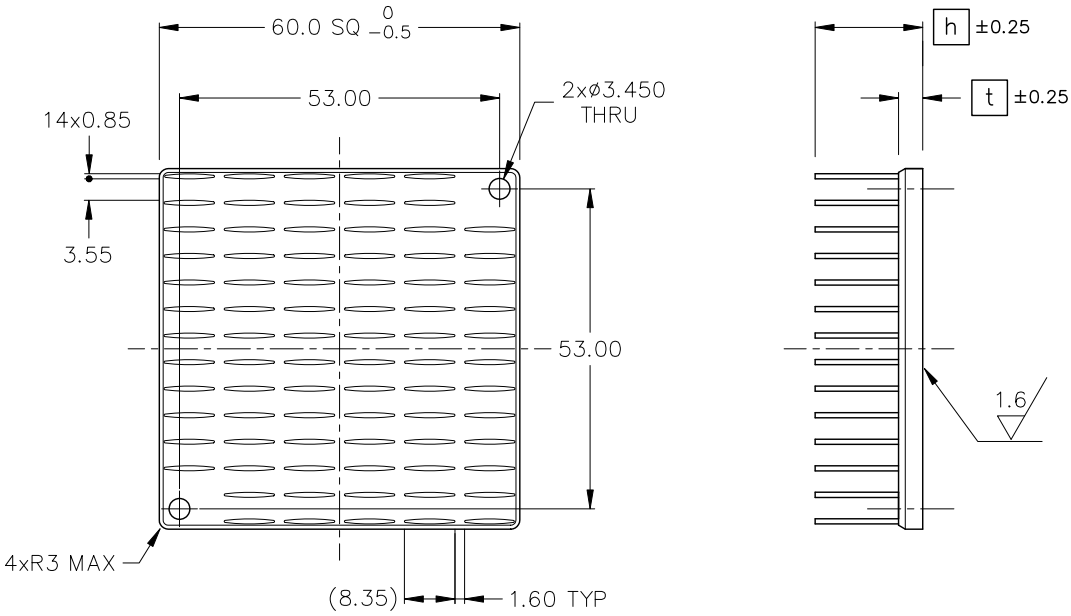
Low Pressure Drop Heat Sink
with attachment holes

# LPDM60

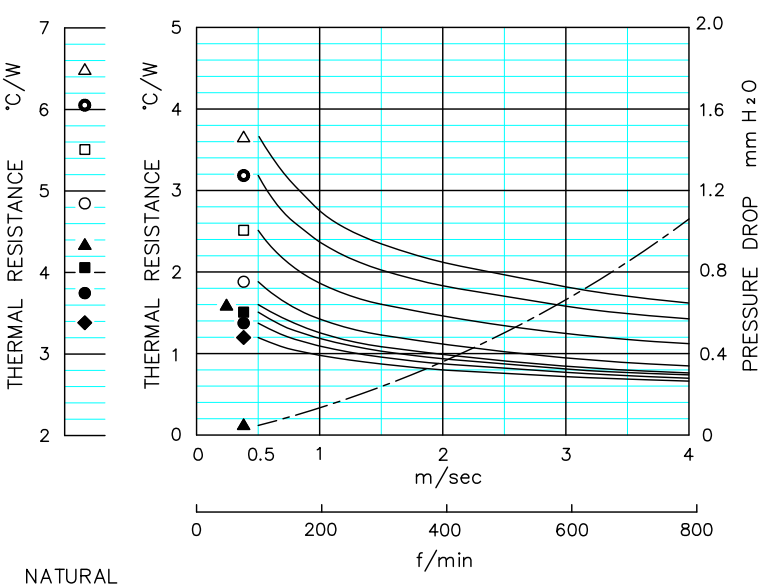
DIM




| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDM60−10BP | 10 | 3.0 | 36.8 |
| LPDM60−12BP | 12 | | 39.2 |
| LPDM60−15BP | 15 | 4.0 | 51.2 |
| LPDM60−20BP | 20 | | 57.3 |
| LPDM60−25BP | 25 | | 63.3 |
| LPDM60−30BP | 30 | | 69.9 |
| LPDM60−35BP | 35 | | 76.0 |
| LPDM60−40BP | 40 | | 82.0 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



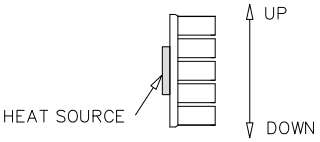

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

△ LPDM60−10BP ▲ LPDM60−25BP
◎ LPDM60−12BP ■ LPDM60−30BP
□ LPDM60−15BP ● LPDM60−35BP
○ LPDM60−20BP ◆ LPDM60−40BP

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

● NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 8.0(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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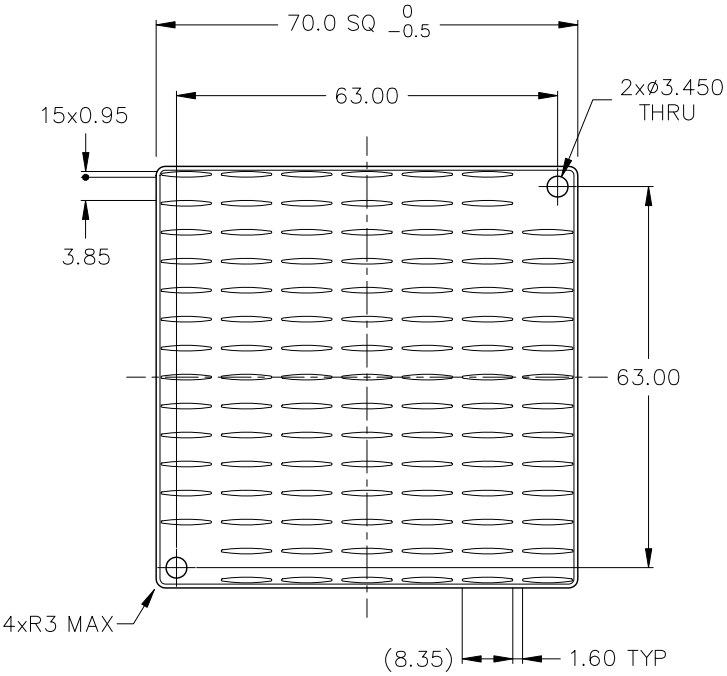
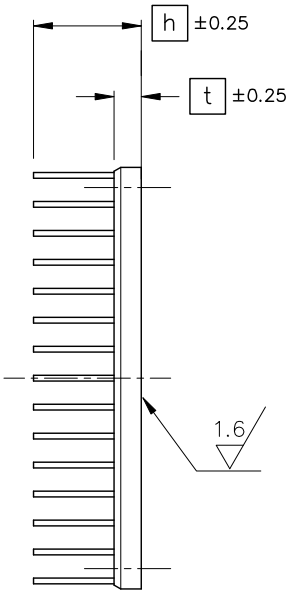
# ALPHA

**Low Pressure Drop Heat Sink with attachment holes**

# LPDM70

DIM

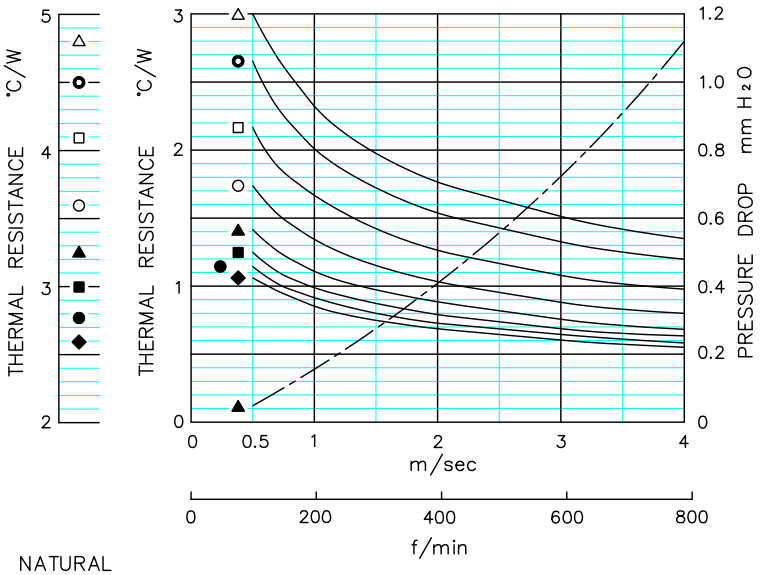



| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDM70−10BP | 10 | 3.0 | 52.0 |
| LPDM70−12BP | 12 | | 62.6 |
| LPDM70−15BP | 15 | 4.0 | 70.9 |
| LPDM70−20BP | 20 | | 78.8 |
| LPDM70−25BP | 25 | | 86.8 |
| LPDM70−30BP | 30 | | 97.7 |
| LPDM70−35BP | 35 | | 106.4 |
| LPDM70−40BP | 40 | | 115.2 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



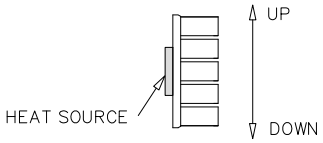

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

△ LPDM70−10BP ▲ LPDM70−25BP
○ LPDM70−12BP ■ LPDM70−30BP
□ LPDM70−15BP ● LPDM70−35BP
○ LPDM70−20BP ◆ LPDM70−40BP

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

● NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 8.0(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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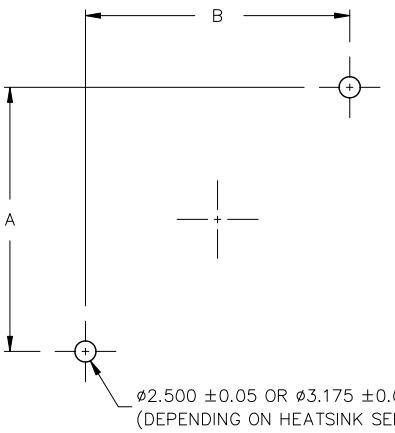
REF

PCB HOLE LAYOUT




| MODEL | A | B |
|---|---|---|
| LPDM25, UBM25, ZM25 | 18.0 | 18.0 |
| LPDM28, UBM28 | 21.0 | 21.0 |
| LPDM30, UBM30, ZM30 | 23.0 | 23.0 |
| LPDM32, UBM32 | 25.0 | 25.0 |
| LPDM35, UBM35, ZM35 | 28.0 | 28.0 |
| LPDM38, UBM38 | 31.0 | 31.0 |
| LPDM40, UBM40, ZM40 | 33.0 | 33.0 |
| LPDM45, UBM45, ZM45 | 38.0 | 38.0 |
| LPDM50, UBM50, ZM50 | 43.0 | 43.0 |
| LPDM54, UBM54, ZM54 | 47.0 | 47.0 |
| LPDM60, UBM60, ZM60 | 53.0 | 53.0 |
| LPDM70, UBM70 | 63.0 | 63.0 |

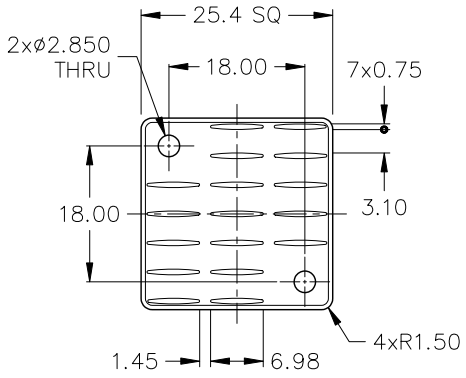
ALPHA

# Low Pressure Drop Heat Sink with attachment holes

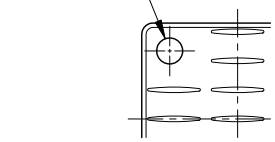
# LPDH25

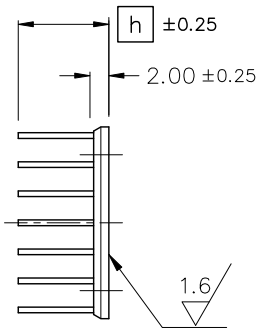
DIM

LPDH25−XXBC
FOR ø2.500 ±0.05 PCB HOLES




LPDH25−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

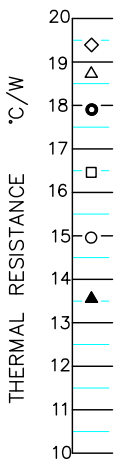
| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDH25−8BC | 8 | 4.5 |
| LPDH25−10BC | 10 | 4.9 |
| LPDH25−12BC | 12 | 5.3 |
| LPDH25−15BC | 15 | 5.9 |
| LPDH25−20BC | 20 | 6.8 |
| LPDH25−25BC | 25 | 7.8 |

FOR ø3.175 ±0.05 PCB HOLES

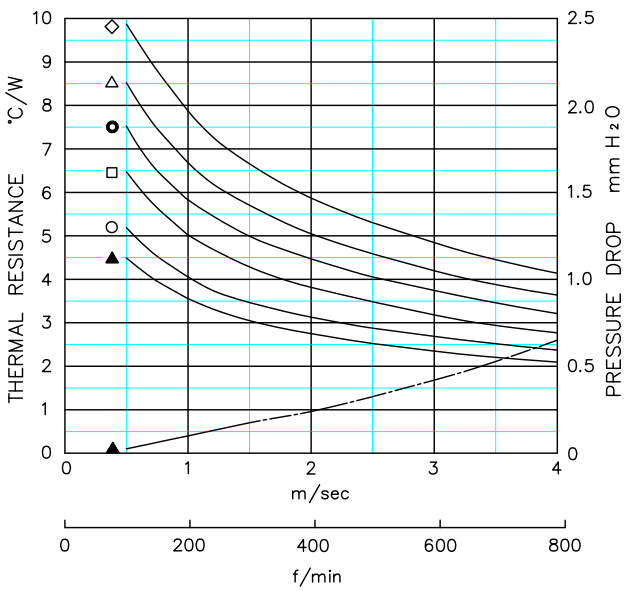
| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDH25−8BP | 8 | 4.5 |
| LPDH25−10BP | 10 | 4.9 |
| LPDH25−12BP | 12 | 5.2 |
| LPDH25−15BP | 15 | 5.8 |
| LPDH25−20BP | 20 | 6.8 |
| LPDH25−25BP | 25 | 7.8 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA




NATURAL CONVECTION

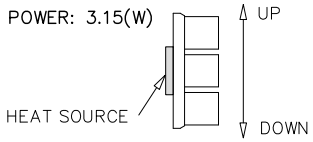



AIR VELOCITY: DUCTED CONDITION

◇ LPDH25−8BC, LPDH25−8BP
△ LPDH25−10BC, LPDH25−10BP
◎ LPDH25−12BC, LPDH25−12BP
□ LPDH25−15BC, LPDH25−15BP
○ LPDH25−20BC, LPDH25−20BP
▲ LPDH25−25BC, LPDH25−25BP

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

● NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 3.15(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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REFER TO TECHNICAL INFORMATION.


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ALPHA

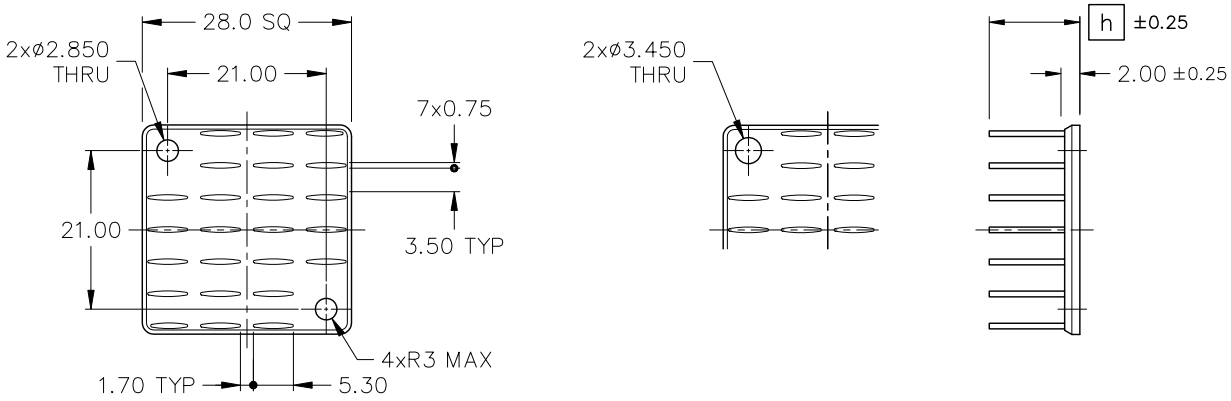
# Low Pressure Drop Heat Sink with attachment holes

# LPDH28

DIM

LPDH28−XXBC
FOR ø2.500 ±0.05 PCB HOLES

LPDH28−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

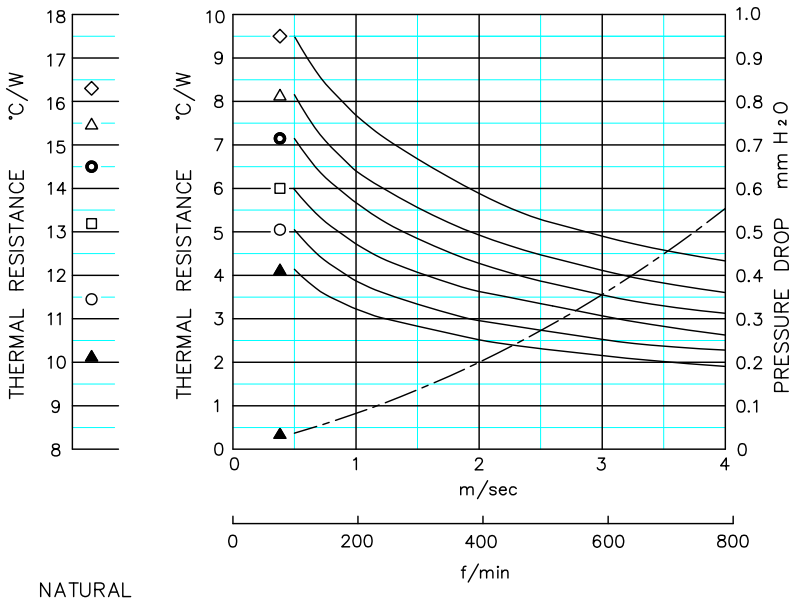
| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDH28−8BC | 8 | 5.2 |
| LPDH28−10BC | 10 | 5.6 |
| LPDH28−12BC | 12 | 6.0 |
| LPDH28−15BC | 15 | 6.6 |
| LPDH28−20BC | 20 | 7.7 |
| LPDH28−25BC | 25 | 8.7 |

FOR ø3.175 ±0.05 PCB HOLES

| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDH28−8BP | 8 | 5.2 |
| LPDH28−10BP | 10 | 5.6 |
| LPDH28−12BP | 12 | 6.0 |
| LPDH28−15BP | 15 | 6.6 |
| LPDH28−20BP | 20 | 7.7 |
| LPDH28−25BP | 25 | 8.7 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



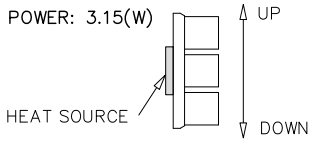

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

◇ LPDH28−8BC, LPDH28−8BP
△ LPDH28−10BC, LPDH28−10BP
◎ LPDH28−12BC, LPDH28−12BP
□ LPDH28−15BC, LPDH28−15BP
○ LPDH28−20BC, LPDH28−20BP
▲ LPDH28−25BC, LPDH28−25BP

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

● NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 3.15(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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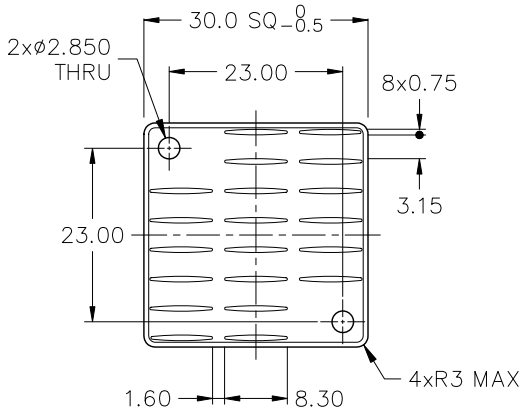
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

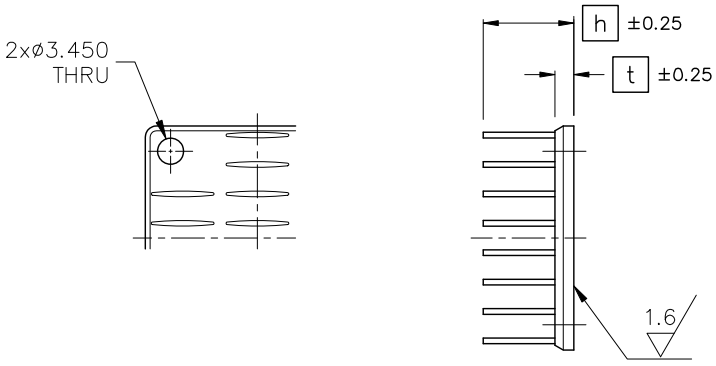
# LPDH30

DIM

LPDH30−XXBC
FOR ø2.500 ±0.05 PCB HOLES




LPDH30−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDH30−8BC | 8 | 2.0 | 6.2 |
| LPDH30−10BC | 10 | 2.5 | 7.8 |
| LPDH30−12BC | 12 | | 8.4 |
| LPDH30−15BC | 15 | | 9.2 |
| LPDH30−20BC | 20 | | 10.6 |
| LPDH30−25BC | 25 | | 11.9 |
| LPDH30−30BC | 30 | | 13.2 |
| LPDH30−35BC | 35 | | 14.6 |

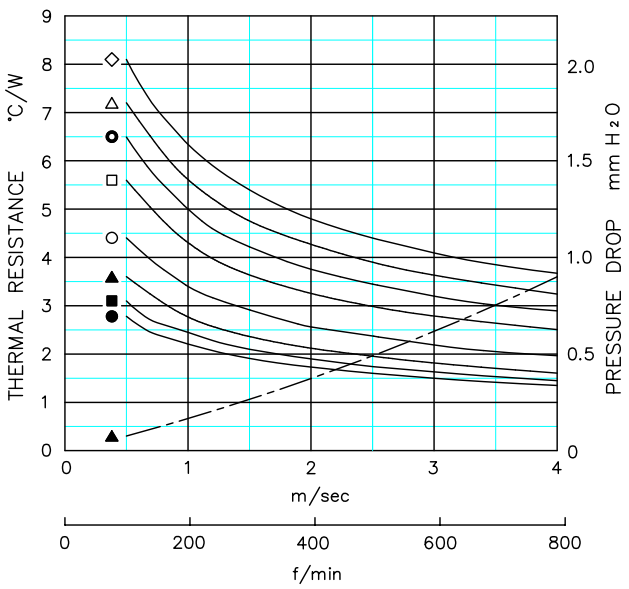
FOR ø3.175 ±0.05 PCB HOLES

| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDH30−8BP | 8 | 2.0 | 6.2 |
| LPDH30−10BP | 10 | 2.5 | 7.8 |
| LPDH30−12BP | 12 | | 8.3 |
| LPDH30−15BP | 15 | | 9.2 |
| LPDH30−20BP | 20 | | 10.5 |
| LPDH30−25BP | 25 | | 11.9 |
| LPDH30−30BP | 30 | | 13.2 |
| LPDH30−35BP | 35 | | 14.5 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA

NATURAL
CONVECTION

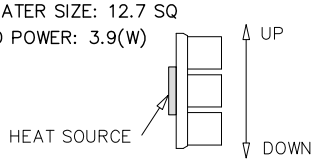



AIR VELOCITY: DUCTED CONDITION

◇ LPDH30−8BC, LPDH30−8BP
△ LPDH30−10BC, LPDH30−10BP
◎ LPDH30−12BC, LPDH30−12BP
□ LPDH30−15BC, LPDH30−15BP
○ LPDH30−20BC, LPDH30−20BP
▲ LPDH30−25BC, LPDH30−25BP
■ LPDH30−30BC, LPDH30−30BP
● LPDH30−35BC, LPDH30−35BP

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

NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 3.9(W)




NOTE ORIENTATION OF HEAT SINK USED
FOR NATURAL CONVECTION TESTING

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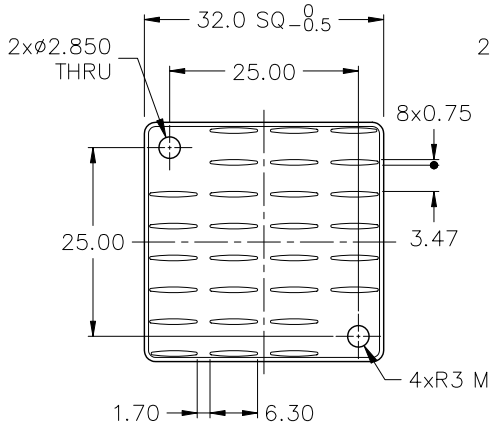
ALPHA

# Low Pressure Drop Heat Sink with attachment holes

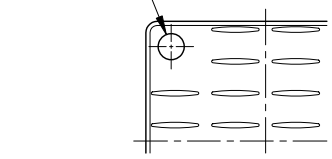
# LPDH32

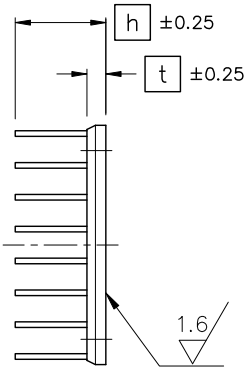
DIM

LPDH32−XXBC
FOR ø2.500 ±0.05 PCB HOLES




LPDH32−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDH32−8BC | 8 | 2.0 | 7.0 |
| LPDH32−10BC | 10 | 2.5 | 8.7 |
| LPDH32−12BC | 12 | | 9.3 |
| LPDH32−15BC | 15 | | 10.2 |
| LPDH32−20BC | 20 | | 11.6 |
| LPDH32−25BC | 25 | | 13.0 |
| LPDH32−30BC | 30 | | 14.4 |
| LPDH32−35BC | 35 | | 15.9 |

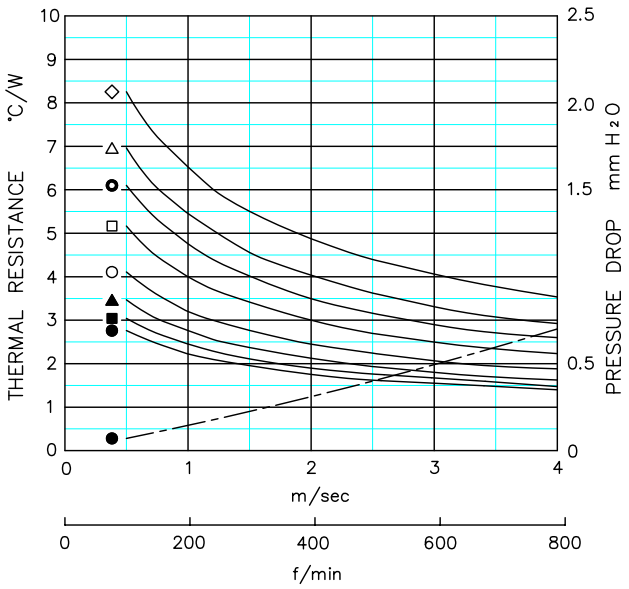
FOR ø3.175 ±0.05 PCB HOLES

| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDH32−8BP | 8 | 2.0 | 6.9 |
| LPDH32−10BP | 10 | 2.5 | 8.7 |
| LPDH32−12BP | 12 | | 9.3 |
| LPDH32−15BP | 15 | | 10.1 |
| LPDH32−20BP | 20 | | 11.5 |
| LPDH32−25BP | 25 | | 13.0 |
| LPDH32−30BP | 30 | | 14.4 |
| LPDH32−35BP | 35 | | 15.8 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA

NATURAL CONVECTION

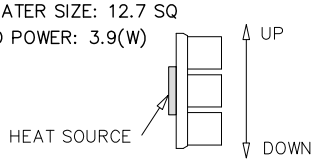



AIR VELOCITY: DUCTED CONDITION

◇ LPDH32−8BC, LPDH32−8BP
△ LPDH32−10BC, LPDH32−10BP
◎ LPDH32−12BC, LPDH32−12BP
□ LPDH32−15BC, LPDH32−15BP
○ LPDH32−20BC, LPDH32−20BP
▲ LPDH32−25BC, LPDH32−25BP
■ LPDH32−30BC, LPDH32−30BP
● LPDH32−35BC, LPDH32−35BP

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

NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 3.9(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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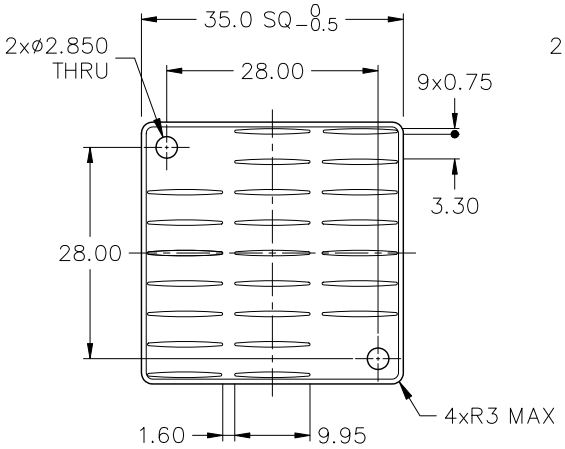
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

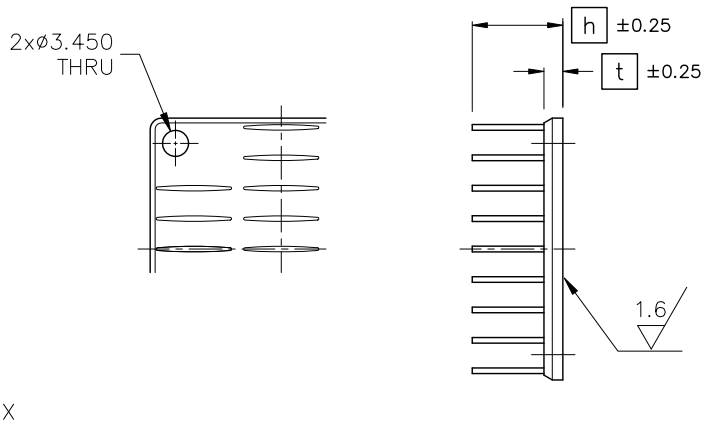
# LPDH35

DIM

LPDH35−XXBC
FOR ø2.500 ±0.05 PCB HOLES




LPDH35−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

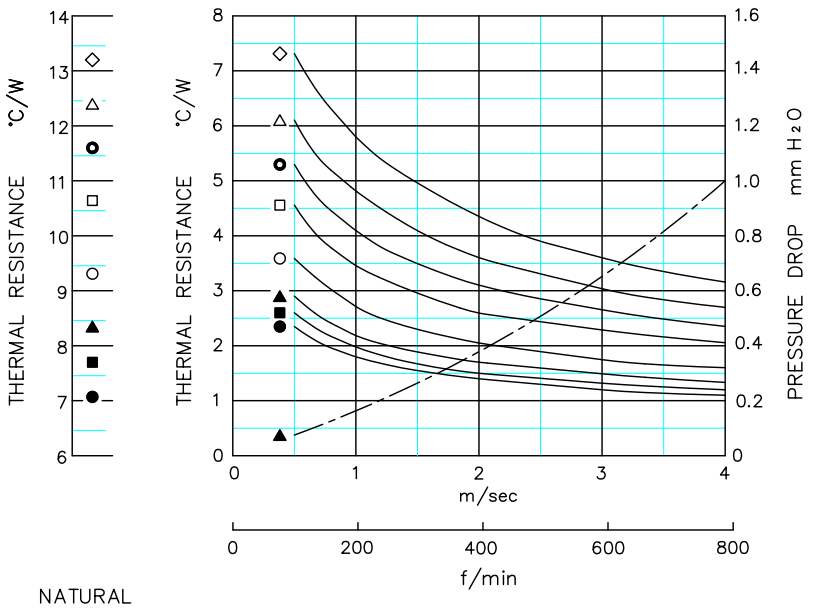
| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDH35−8BC | 8 | 2.0 | 8.6 |
| LPDH35−10BC | 10 | 3.0 | 12.2 |
| LPDH35−12BC | 12 | | 13.0 |
| LPDH35−15BC | 15 | | 14.1 |
| LPDH35−20BC | 20 | | 16.0 |
| LPDH35−25BC | 25 | | 17.9 |
| LPDH35−30BC | 30 | | 19.7 |
| LPDH35−35BC | 35 | | 21.6 |

FOR ø3.175 ±0.05 PCB HOLES

| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDH35−8BP | 8 | 2.0 | 8.6 |
| LPDH35−10BP | 10 | 3.0 | 12.2 |
| LPDH35−12BP | 12 | | 12.9 |
| LPDH35−15BP | 15 | | 14.0 |
| LPDH35−20BP | 20 | | 15.9 |
| LPDH35−25BP | 25 | | 17.8 |
| LPDH35−30BP | 30 | | 19.6 |
| LPDM35−35BP | 35 | | 21.5 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



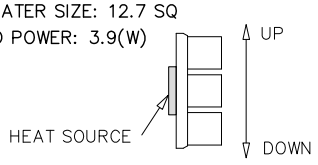

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

◇ LPDH35−8BC, LPDH35−8BP
△ LPDH35−10BC, LPDH35−10BP
○ LPDH35−12BC, LPDH35−12BP
□ LPDH35−15BC, LPDH35−15BP
○ LPDH35−20BC, LPDH35−20BP
▲ LPDH35−25BC, LPDH35−25BP
■ LPDH35−30BC, LPDH35−30BP
● LPDH35−35BC, LPDH35−35BP

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

NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 3.9(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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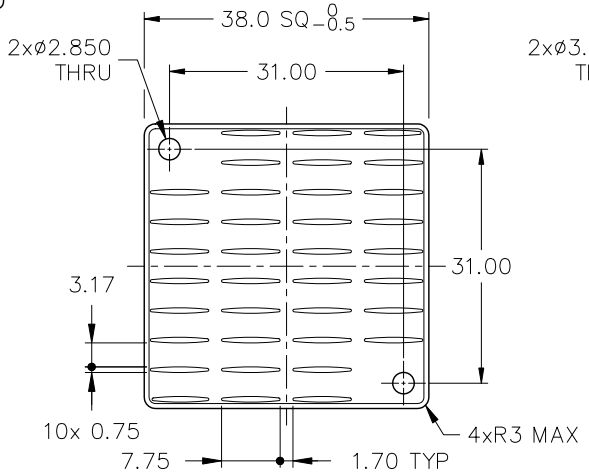
ALPHA

# Low Pressure Drop Heat Sink with attachment holes

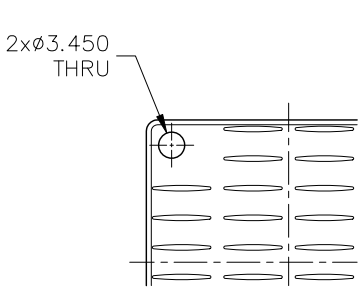
# LPDH38

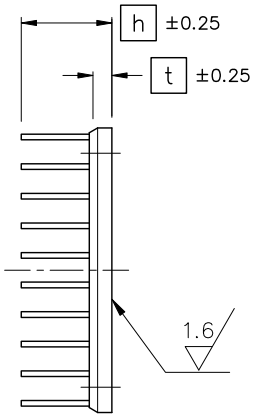
DIM

LPDH38−XXBC
FOR ø2.500 ±0.05 PCB HOLES




LPDH38−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

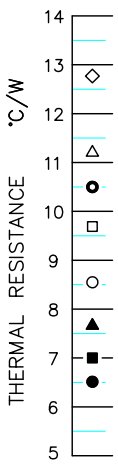
| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDH38−8BC | 8 | 2.0 | 10.2 |
| LPDH38−10BC | 10 | 3.0 | 14.4 |
| LPDH38−12BC | 12 | | 15.3 |
| LPDH38−15BC | 15 | | 16.7 |
| LPDH38−20BC | 20 | | 19.0 |
| LPDH38−25BC | 25 | | 21.3 |
| LPDH38−30BC | 30 | | 23.5 |
| LPDH38−35BC | 35 | | 25.8 |

FOR ø3.175 ±0.05 PCB HOLES

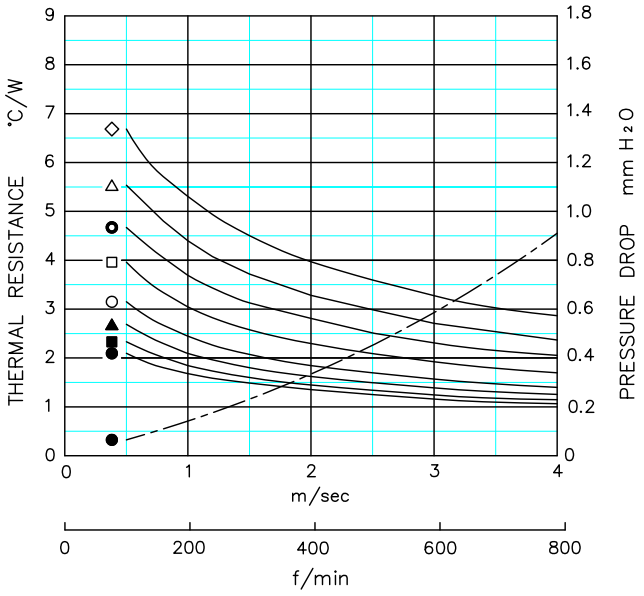
| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDH38−8BP | 8 | 2.0 | 10.2 |
| LPDH38−10BP | 10 | 3.0 | 14.4 |
| LPDH38−12BP | 12 | | 15.3 |
| LPDH38−15BP | 15 | | 16.7 |
| LPDH38−20BP | 20 | | 18.9 |
| LPDH38−25BP | 25 | | 21.2 |
| LPDH38−30BP | 30 | | 23.5 |
| LPDH38−35BP | 35 | | 25.8 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA




NATURAL CONVECTION

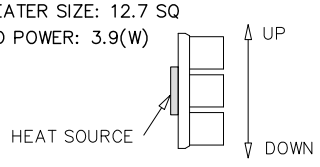



AIR VELOCITY: DUCTED CONDITION

◇ LPDH38−8BC, LPDH38−8BP
△ LPDH38−10BC, LPDH38−10BP
◎ LPDH38−12BC, LPDH38−12BP
□ LPDH38−15BC, LPDH38−15BP
○ LPDH38−20BC, LPDH38−20BP
▲ LPDH38−25BC, LPDH38−25BP
■ LPDH38−30BC, LPDH38−30BP
● LPDH38−35BC, LPDH38−35BP

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

NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 3.9(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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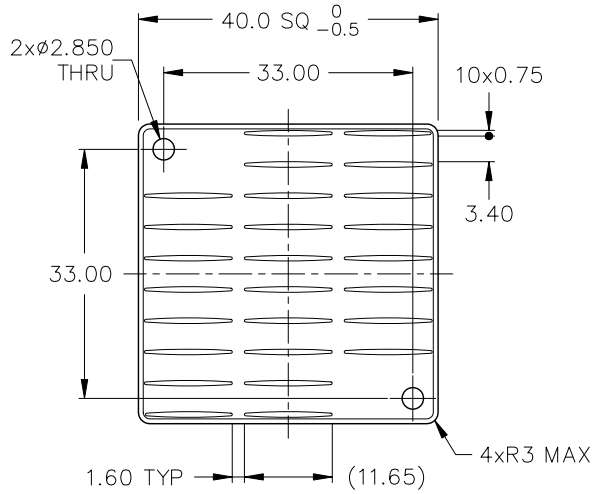
ALPHA

# Low Pressure Drop Heat Sink with attachment holes

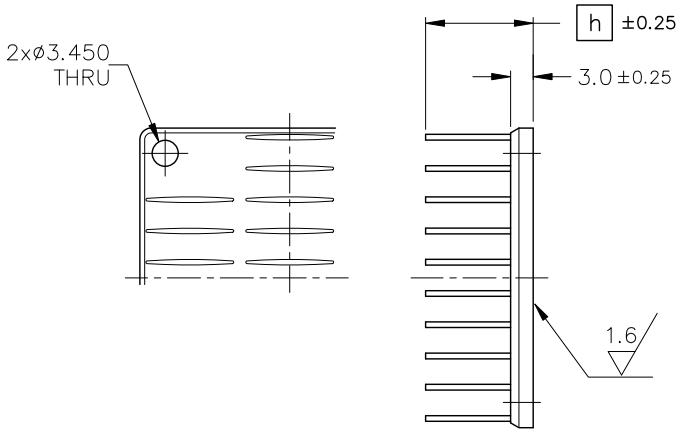
# LPDH40

DIM

LPDH40−XXBC
FOR ø2.500 ±0.05 PCB HOLES




LPDH40−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

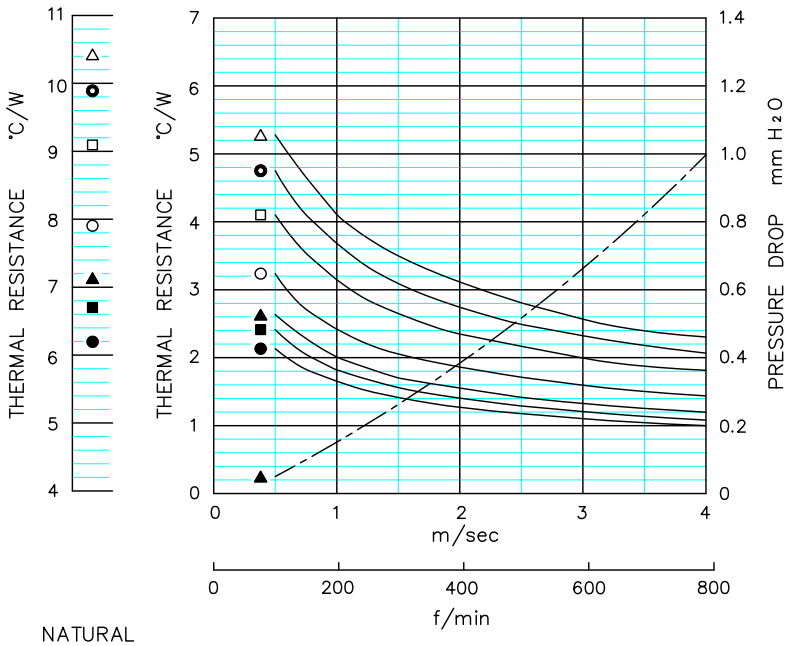
| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDH40−10BC | 10 | 16.0 |
| LPDH40−12BC | 12 | 17.0 |
| LPDH40−15BC | 15 | 18.5 |
| LPDH40−20BC | 20 | 21.0 |
| LPDH40−25BC | 25 | 23.5 |
| LPDH40−30BC | 30 | 26.0 |
| LPDH40−35BC | 35 | 28.5 |

FOR ø3.175 ±0.05 PCB HOLES

| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDH40−10BP | 10 | 16.0 |
| LPDH40−12BP | 12 | 17.0 |
| LPDH40−15BP | 15 | 18.5 |
| LPDH40−20BP | 20 | 20.9 |
| LPDH40−25BP | 25 | 23.4 |
| LPDH40−30BP | 30 | 25.9 |
| LPDH40−35BP | 35 | 28.4 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



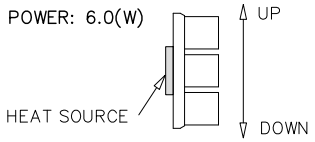

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

△ LPDH40−10BC, LPDH40−10BP
◎ LPDH40−12BC, LPDH40−12BP
□ LPDH40−15BC, LPDH40−15BP
○ LPDH40−20BC, LPDH40−20BP
▲ LPDH40−25BC, LPDH40−25BP
■ LPDH40−30BC, LPDH40−30BP
● LPDH40−35BC, LPDH40−35BP

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

NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 6.0(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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ALPHA

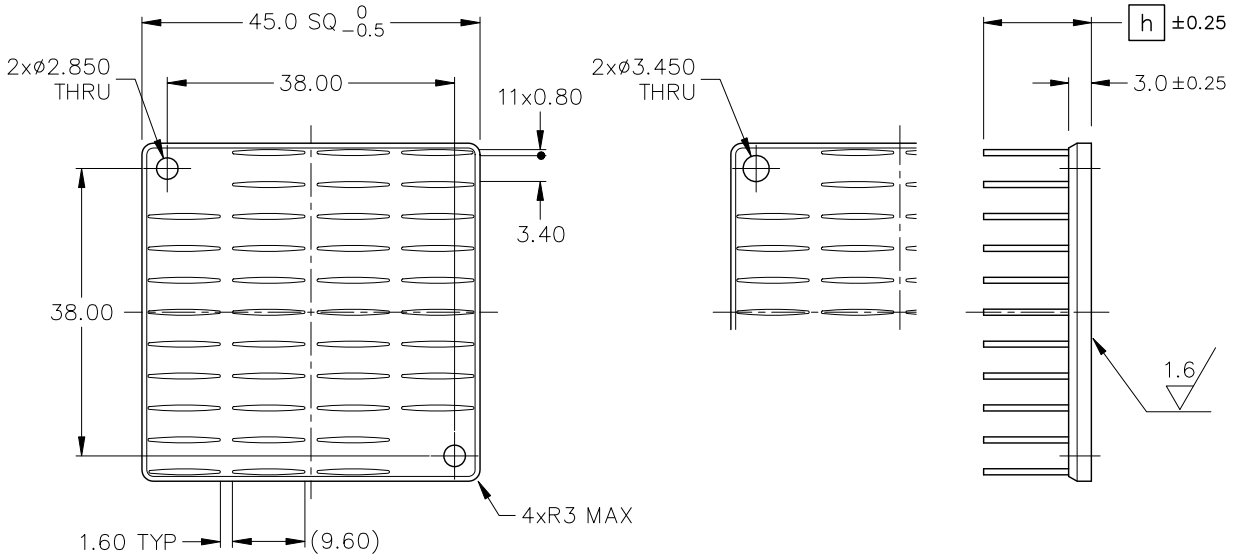
# Low Pressure Drop Heat Sink with attachment holes

# LPDH45

DIM

LPDH45−XXBC
FOR ø2.500 ±0.05 PCB HOLES

LPDH45−XXBP
FOR ø3.175 ±0.05 PCB HOLES




FOR ø2.500 ±0.05 PCB HOLES

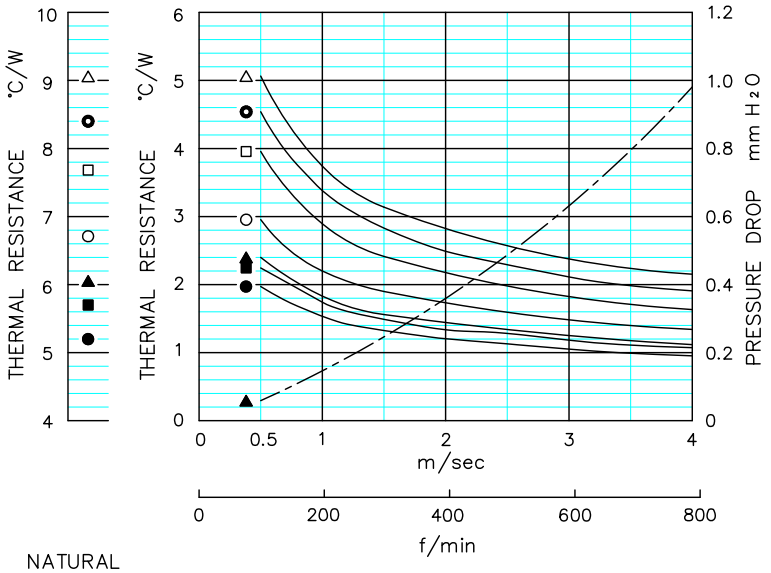
| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDH45−10BC | 10 | 20.6 |
| LPDH45−12BC | 12 | 21.9 |
| LPDH45−15BC | 15 | 23.9 |
| LPDH45−20BC | 20 | 27.2 |
| LPDH45−25BC | 25 | 30.5 |
| LPDH45−30BC | 30 | 33.8 |
| LPDH45−35BC | 35 | 37.1 |

FOR ø3.175 ±0.05 PCB HOLES

| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDH45−10BP | 10 | 20.5 |
| LPDH45−12BP | 12 | 21.8 |
| LPDH45−15BP | 15 | 23.8 |
| LPDH45−20BP | 20 | 27.1 |
| LPDH45−25BP | 25 | 30.4 |
| LPDH45−30BP | 30 | 33.7 |
| LPDH45−35BP | 35 | 37.1 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



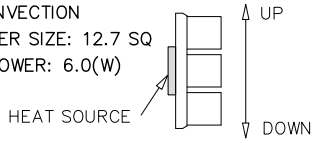

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

△ LPDH45−10BC, LPDH45−10BP
○ LPDH45−12BC, LPDH45−12BP
□ LPDH45−15BC, LPDH45−15BP
○ LPDH45−20BC, LPDH45−20BP
▲ LPDH45−25BC, LPDH45−25BP
■ LPDH45−30BC, LPDH45−30BP
● LPDH45−35BC, LPDH45−35BP

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

NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 6.0(W)

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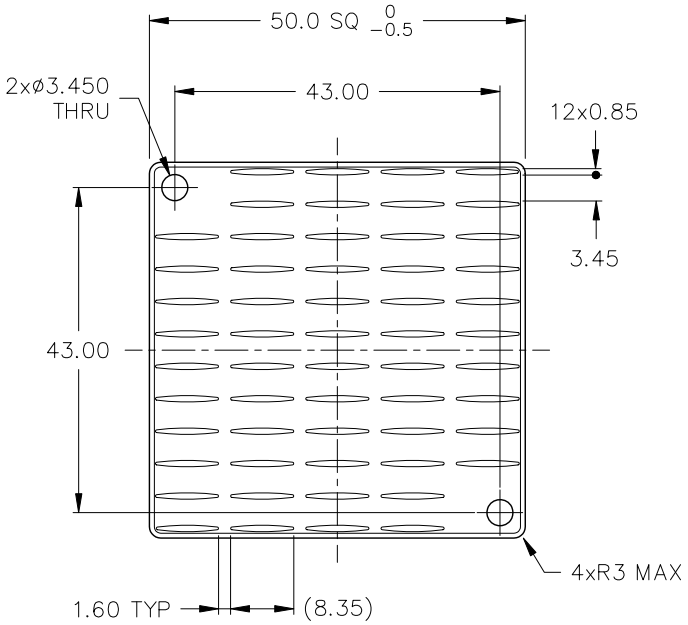
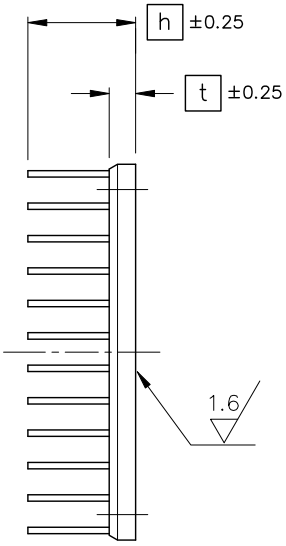
Low Pressure Drop Heat Sink
with attachment holes

# LPDH50

DIM

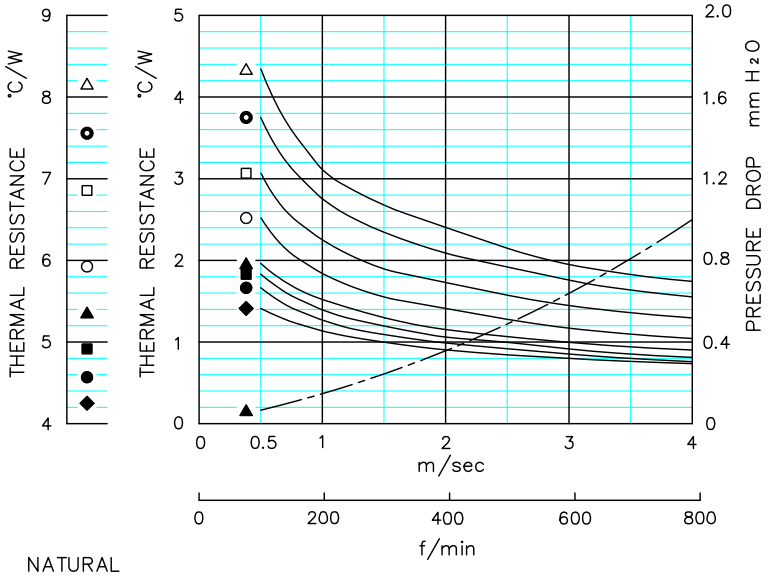



| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDH50−10BP | 10 | 3.0 | 25.6 |
| LPDH50−12BP | 12 | | 27.2 |
| LPDH50−15BP | 15 | 3.5 | 32.6 |
| LPDH50−20BP | 20 | | 36.8 |
| LPDH50−25BP | 25 | | 41.0 |
| LPDH50−30BP | 30 | | 45.7 |
| LPDH50−35BP | 35 | | 50.0 |
| LPDH50−40BP | 40 | | 54.2 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



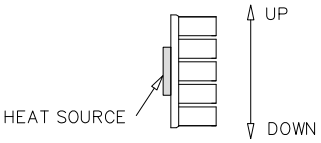

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

△ LPDH50−10BP ▲ LPDH50−25BP
○ LPDH50−12BP ■ LPDH50−30BP
□ LPDH50−15BP ● LPDH50−35BP
○ LPDH50−20BP ◆ LPDH50−40BP

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

● NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 8.0(W)

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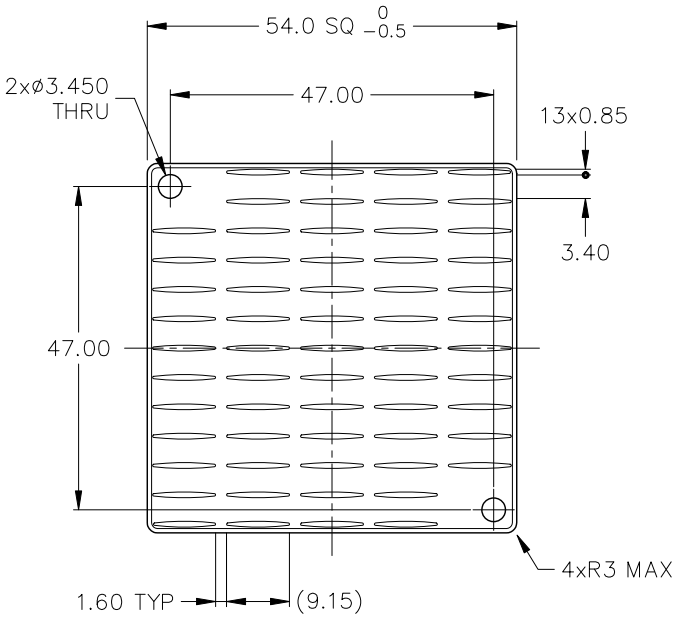
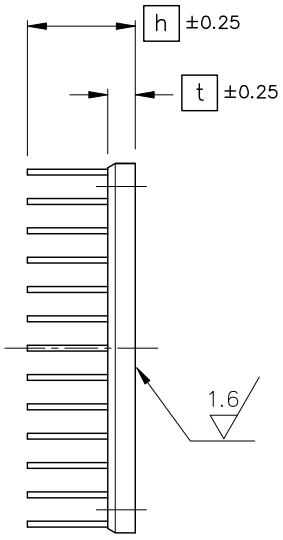
# Low Pressure Drop Heat Sink with attachment holes

# LPDH54

DIM

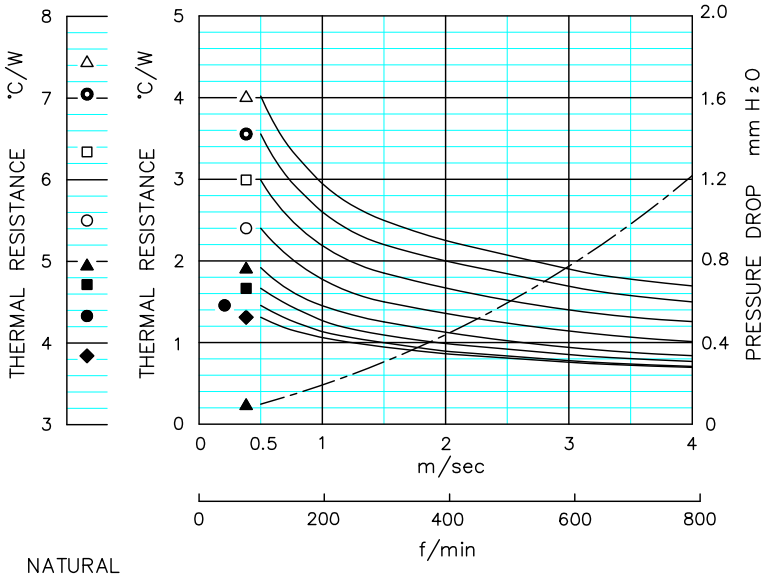



| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDH54−10BP | 10 | 3.0 | 30.0 |
| LPDH54−12BP | 12 | | 32.0 |
| LPDH54−15BP | 15 | 4.0 | 41.8 |
| LPDH54−20BP | 20 | | 46.8 |
| LPDH54−25BP | 25 | | 51.8 |
| LPDH54−30BP | 30 | | 57.4 |
| LPDH54−35BP | 35 | | 62.5 |
| LPDH54−40BP | 40 | | 67.5 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



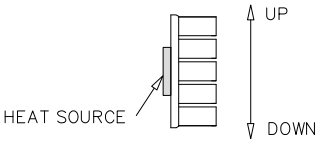

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

△ LPDH54−10BP ▲ LPDH54−25BP
○ LPDH54−12BP ■ LPDH54−30BP
□ LPDH54−15BP ● LPDH54−35BP
○ LPDH54−20BP ◆ LPDH54−40BP

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

● NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 8.0(W)

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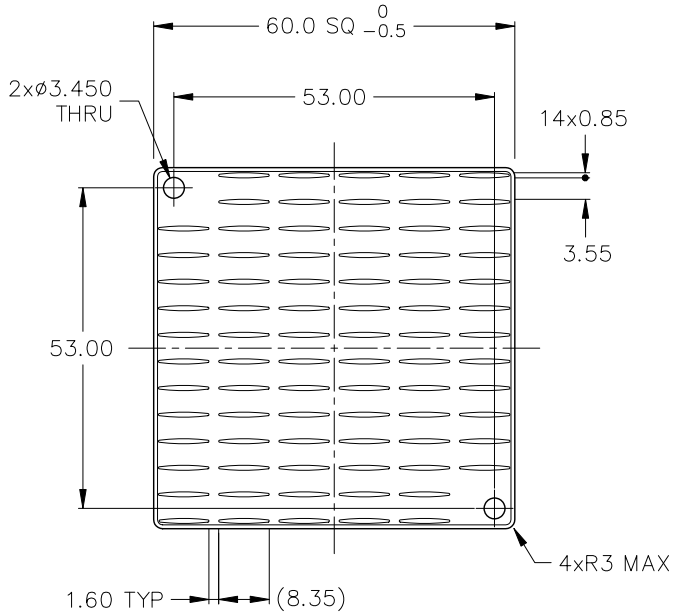
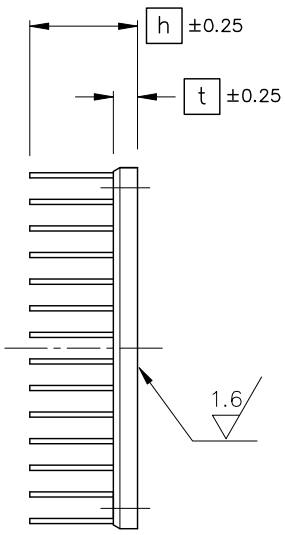
Low Pressure Drop Heat Sink
with attachment holes

# LPDH60

DIM

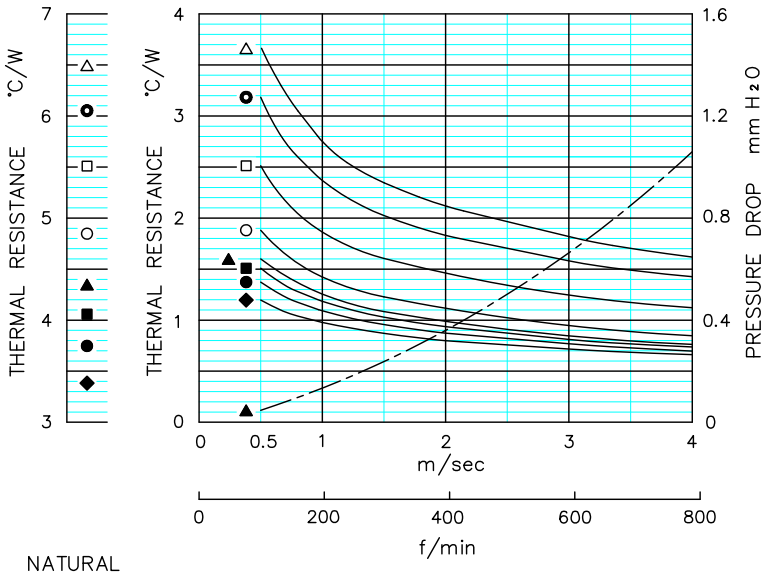



| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDH60−10BP | 10 | 3.0 | 36.8 |
| LPDH60−12BP | 12 | | 39.2 |
| LPDH60−15BP | 15 | 4.0 | 51.2 |
| LPDH60−20BP | 20 | | 57.3 |
| LPDH60−25BP | 25 | | 63.3 |
| LPDH60−30BP | 30 | | 69.9 |
| LPDH60−35BP | 35 | | 76.0 |
| LPDH60−40BP | 40 | | 82.0 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



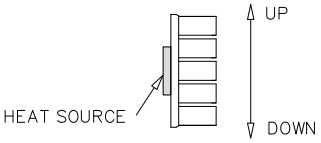

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

△ LPDH60−10BP ▲ LPDH60−25BP
◎ LPDH60−12BP ■ LPDH60−30BP
□ LPDH60−15BP ● LPDH60−35BP
○ LPDH60−20BP ◆ LPDH60−40BP

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

● NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 8.0(W)




NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.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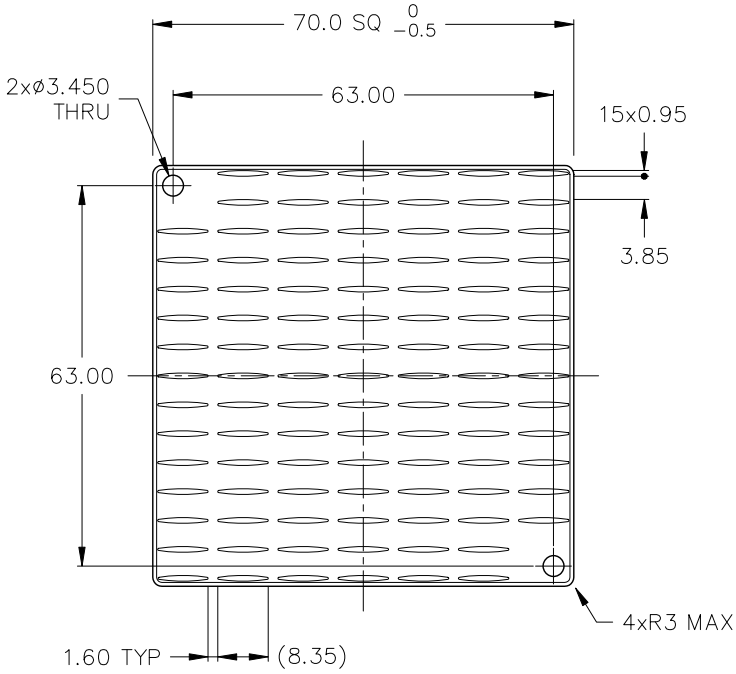
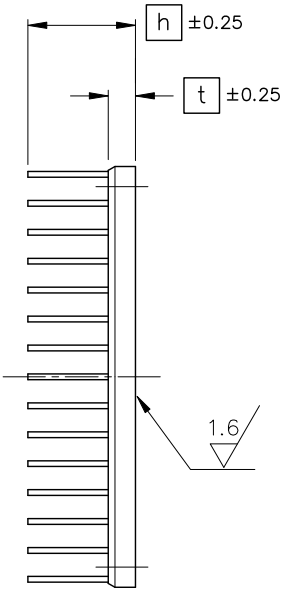
# Low Pressure Drop Heat Sink with attachment holes

# LPDH70

DIM

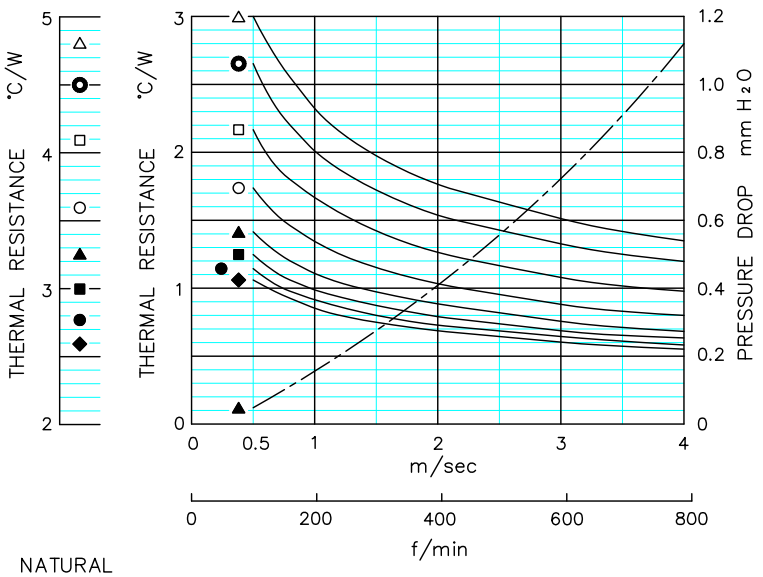



| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDH70−10BP | 10 | 3.0 | 52.0 |
| LPDH70−12BP | 12 | | 62.6 |
| LPDH70−15BP | 15 | 4.0 | 70.9 |
| LPDH70−20BP | 20 | | 78.8 |
| LPDH70−25BP | 25 | | 86.8 |
| LPDH70−30BP | 30 | | 97.7 |
| LPDH70−35BP | 35 | | 106.4 |
| LPDH70−40BP | 40 | | 115.2 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



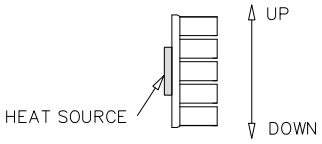

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

△ LPDH70−10BP
○ LPDH70−12BP
□ LPDH70−15BP
○ LPDH70−20BP
▲ LPDH70−25BP
■ LPDH70−30BP
● LPDH70−35BP
◆ LPDH70−40BP

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

● NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSPATED POWER: 8.0(W)

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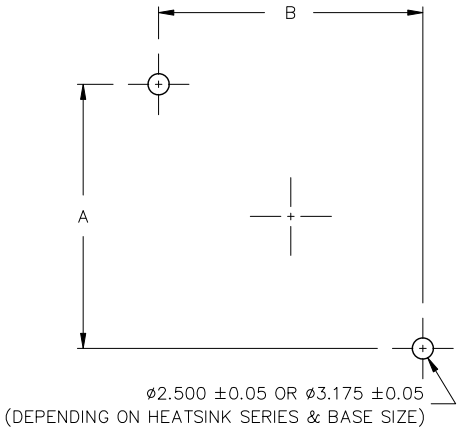
REF

PCB HOLE LAYOUT



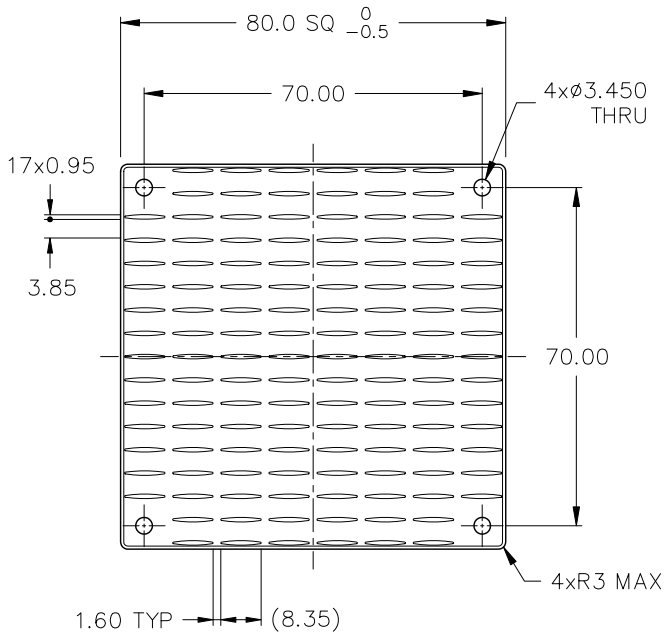

| MODEL | A | B |
|---|---|---|
| LPDH25, UBH25, ZH25 | 18.0 | 18.0 |
| LPDH28, UBH28 | 21.0 | 21.0 |
| LPDH30, UBH30, ZH30 | 23.0 | 23.0 |
| LPDH32, UBH32 | 25.0 | 25.0 |
| LPDH35, UBH35, ZH35 | 28.0 | 28.0 |
| LPDH38, UBH38 | 31.0 | 31.0 |
| LPDH40, UBH40, ZH40 | 33.0 | 33.0 |
| LPDH45, UBH45, ZH45 | 38.0 | 38.0 |
| LPDH50, UBH50, ZH50 | 43.0 | 43.0 |
| LPDH54, UBH54, ZH54 | 47.0 | 47.0 |
| LPDH60, UBH60, ZH60 | 53.0 | 53.0 |
| LPDH70, UBH70 | 63.0 | 63.0 |

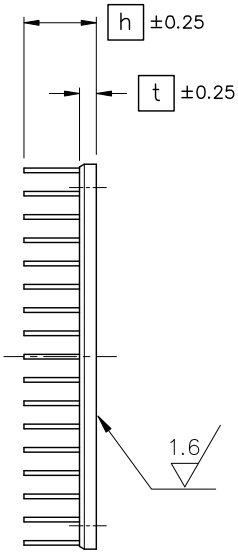
ALPHA

# Low Pressure Drop Heat Sink with attachment holes

# LPDP80

DIM

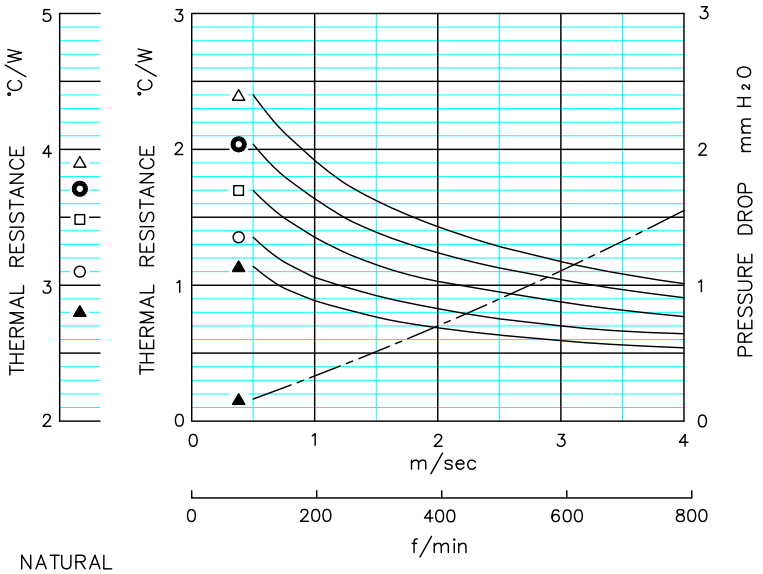



| MODEL | HEIGHT h | THICKNESS t | WEIGHT(g) |
|---|---|---|---|
| LPDP80−10B | 10 | 3.5 | 75 |
| LPDP80−12B | 12 | | 79 |
| LPDP80−15B | 15 | | 86 |
| LPDP80−20B | 20 | 5.0 | 119 |
| LPDP80−25B | 25 | | 131 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



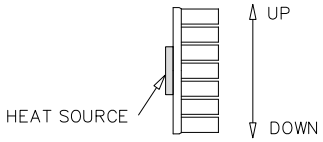

NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

△ LPDP80−10B
○ LPDP80−12B
□ LPDP80−15B
○ LPDP80−20B
▲ LPDP80−25B

DUCTED CONDITION
DUMMY HEATER SIZE: 25.4 SQ
THERMAL RESISTANCE ——————
PRESURE DROP —— - ——

NATURAL CONVECTION
DUMMY HEATER SIZE: 25.4 SQ
DISSPATED POWER: 14.5(W)

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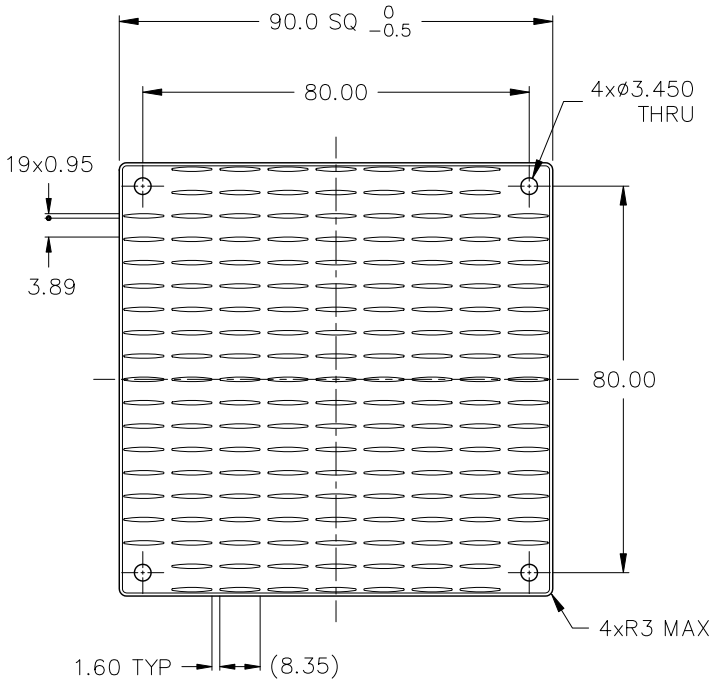
Low Pressure Drop Heat Sink
with attachment holes

# LPDP90

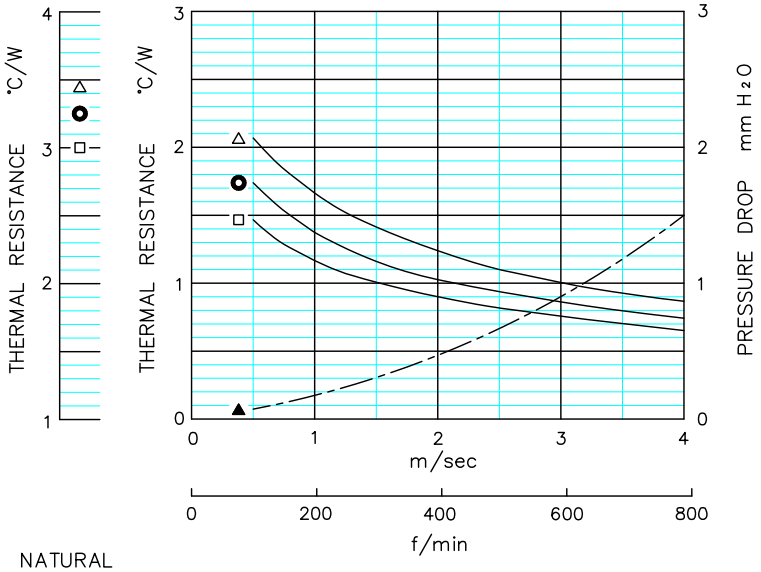
DIM




| MODEL | HEIGHT h | WEIGHT(g) |
|---|---|---|
| LPDP90−10B | 10 | 104 |
| LPDP90−12B | 12 | 109 |
| LPDP90−15B | 15 | 118 |

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA

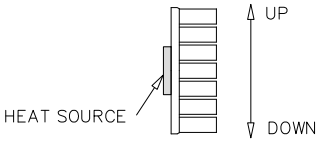



NATURAL CONVECTION

AIR VELOCITY: DUCTED CONDITION

△ LPDP90−10B
○ LPDP90−12B
□ LPDP90−15B

- DUCTED CONDITION
  DUMMY HEATER SIZE: 25.4 SQ
  THERMAL RESISTANCE ——
  PRESURE DROP — - —
- NATURAL CONVECTION
  DUMMY HEATER SIZE: 25.4 SQ
  DISSPATED POWER: 15.5(W)

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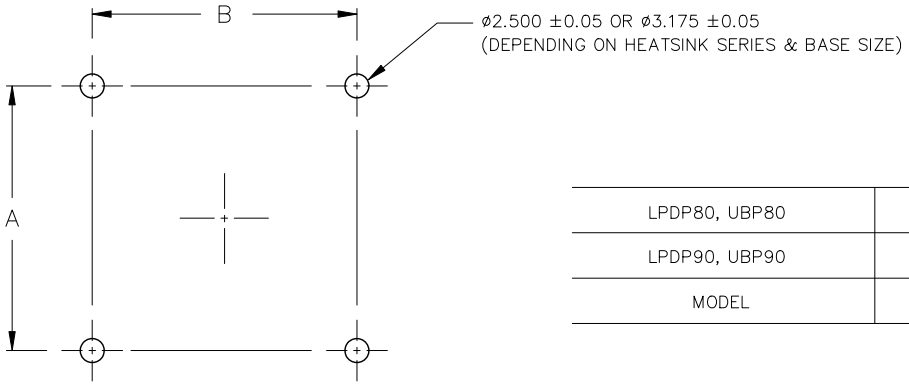


| MODEL | A | B |
|---|---|---|
| LPDP80, UBP80 | 70.0 | 70.0 |
| LPDP90, UBP90 | 80.0 | 80.0 |