

LPDM Series LPDH Series

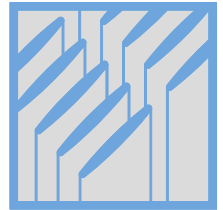
Low Pressure Drop Heat Sink
with Attachment Holes

ALPHA

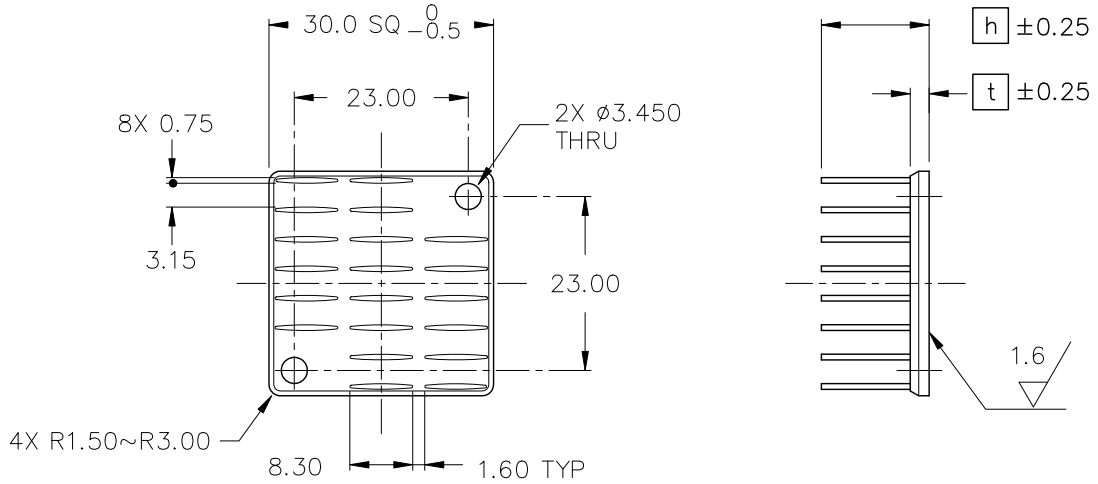
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDM30



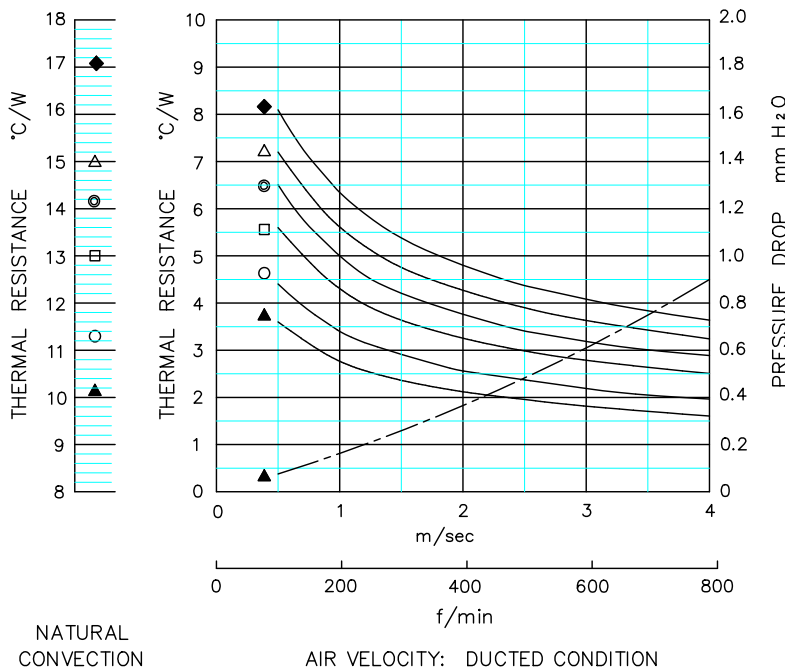
DIM



MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
LPDM30-8BP	8	2.00	6.2
LPDM30-10BP	10		7.7
LPDM30-12BP	12		8.3
LPDM30-15BP	15		9.1
LPDM30-20BP	20		10.5
LPDM30-25BP	25		11.8
LPDM30-[h]BP	8 ≤ [h] < 10	2.00	-
	10 ≤ [h] ≤ 25	2.50	-

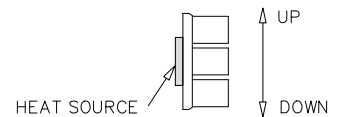
MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ◆ LPDM30-8BP
- △ LPDM30-10BP
- ◎ LPDM30-12BP
- LPDM30-15BP
- LPDM30-20BP
- ▲ LPDM30-25BP

- DUCTED CONDITION
 DUMMY HEATER SIZE: 12.7 SQ
 THERMAL RESISTANCE ———
 PRESSURE DROP - - - - -
- NATURAL CONVECTION
 DUMMY HEATER SIZE: 12.7 SQ
 DISSIPATED 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.

Alpha Company Ltd.

256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN
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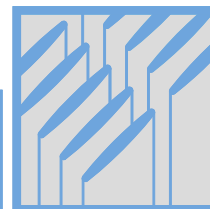
Alpha Novatech, Inc. - a subsidiary of Alpha Company.

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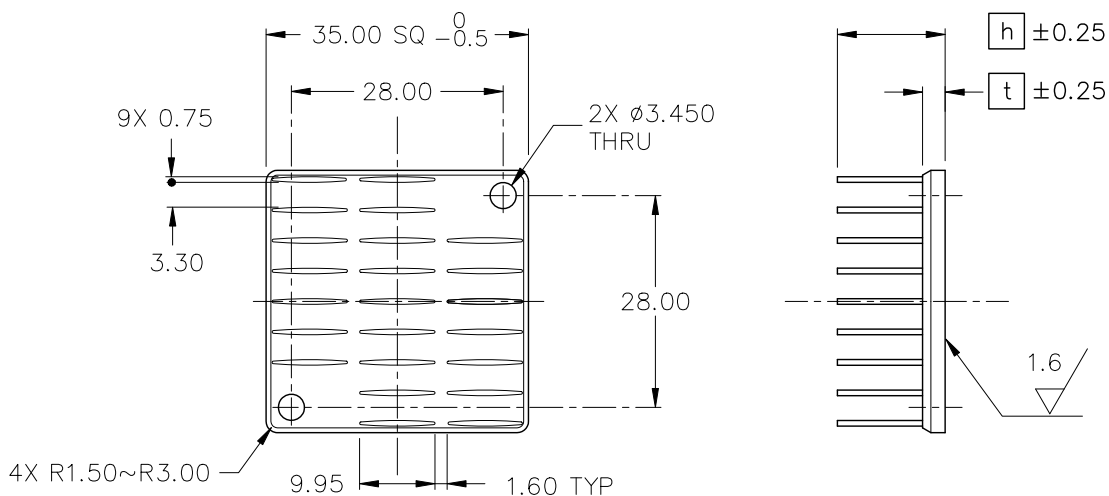
ALPHA

Low Pressure Drop Heat Sink with attachment holes

LPDM35



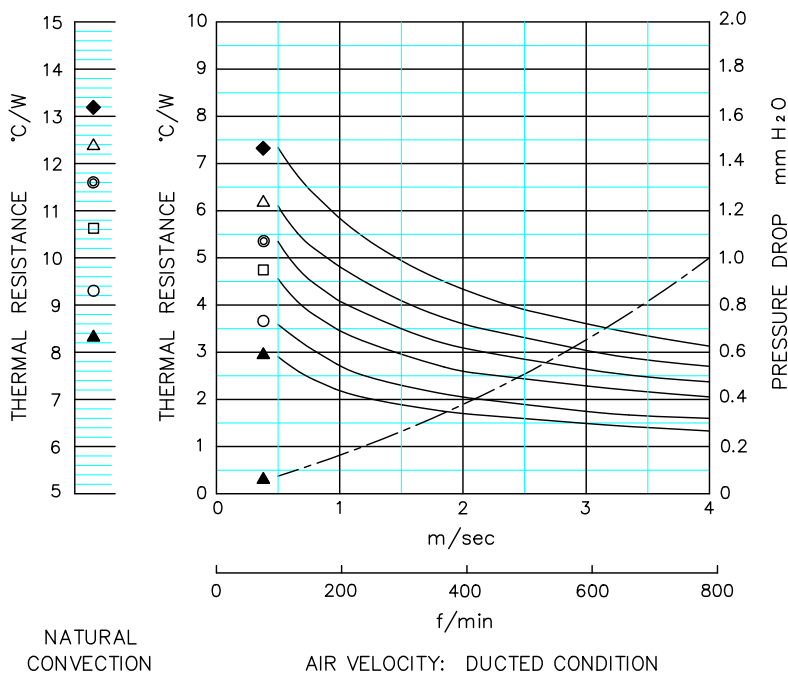
DIM



MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
LPDM35-8BP	8	2.00	8.5
LPDM35-10BP	10		12.1
LPDM35-12BP	12		12.8
LPDM35-15BP	15		14.0
LPDM35-20BP	20		15.8
LPDM35-25BP	25	3.00	17.7
LPDM35- h BP	$8 \leq h < 10$	2.00	-
	$10 \leq h \leq 25$	3.00	-

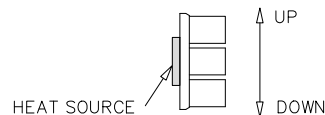
MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- ◆ LPDM35-8BP
- △ LPDM35-10BP
- ◎ LPDM35-12BP
- LPDM35-15BP
- LPDM35-20BP
- ▲ LPDM35-25BP

- DUCTED CONDITION
 DUMMY HEATER SIZE: 12.7 SQ
 THERMAL RESISTANCE ———
 PRESSURE DROP - - - - -
- NATURAL CONVECTION
 DUMMY HEATER SIZE: 12.7 SQ
 DISSIPATED POWER: 4.7(W)



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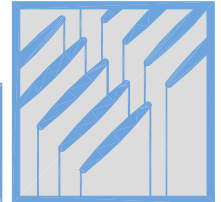
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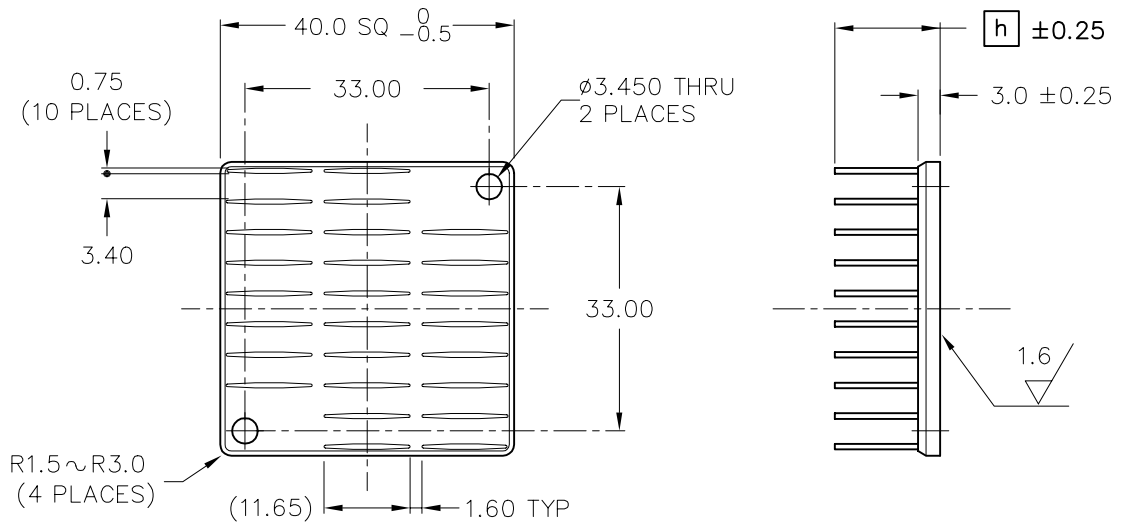
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDM40



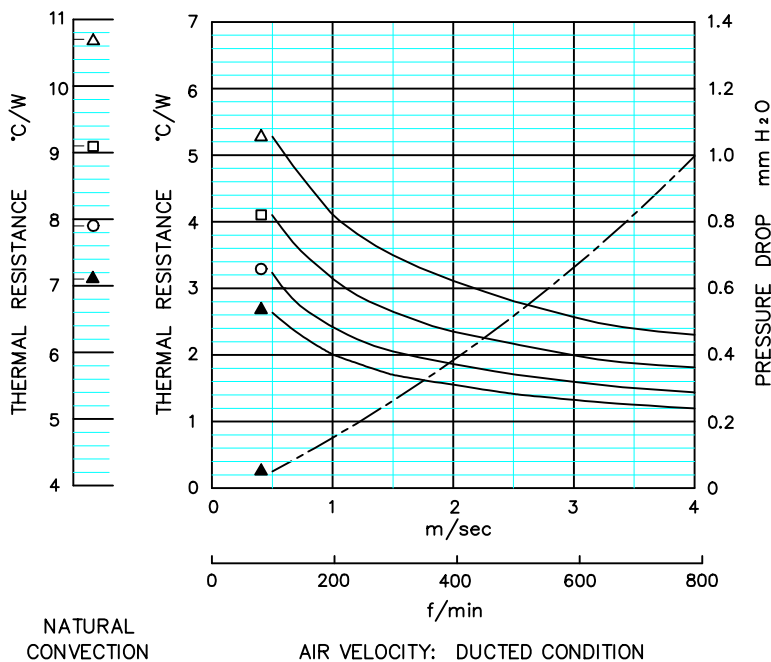
DIM



MODEL	HEIGHT h	WEIGHT (grams)
LPDM40-10BP	10	15.7
LPDM40-15BP	15	18.1
LPDM40-20BP	20	20.6
LPDM40-25BP	25	23.0

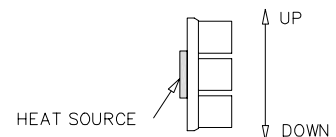
MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- △ LPDM40-10BP
- LPDM40-15BP
- LPDM40-20BP
- ▲ LPDM40-25BP

- DUCTED CONDITION
 DUMMY HEATER SIZE: 12.7 SQ
 THERMAL RESISTANCE ———
 PRESSURE DROP - - - - -
- NATURAL CONVECTION
 DUMMY HEATER SIZE: 12.7 SQ
 DISSIPATED POWER: 6.0(W)



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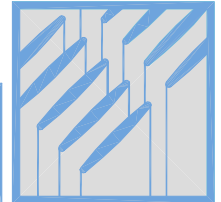
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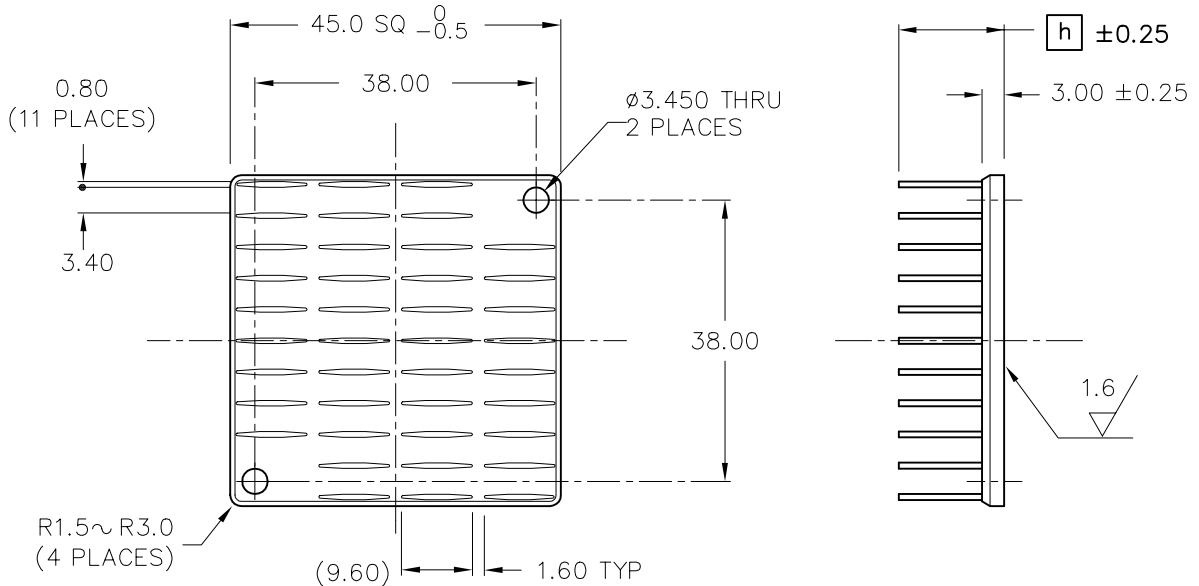
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDM 45



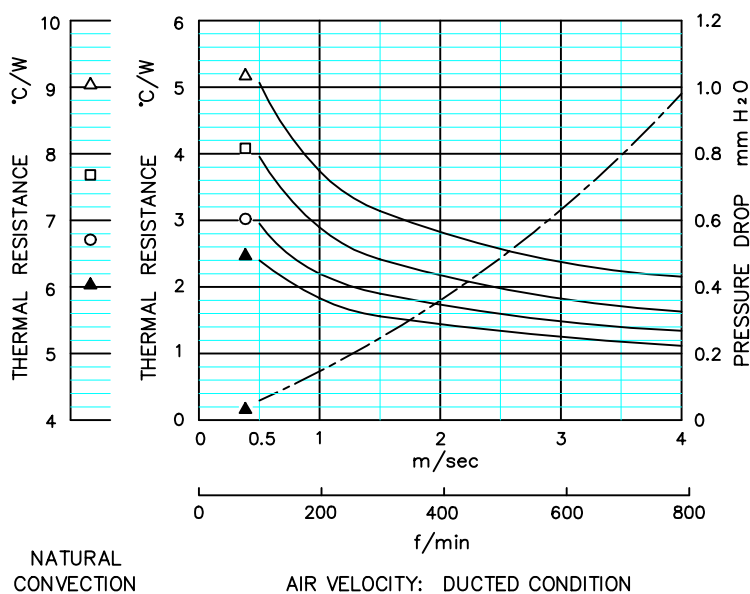
DIM



MODEL	HEIGHT h	WEIGHT (grams)
LPDM45-10BP	10	20.6
LPDM45-15BP	15	23.8
LPDM45-20BP	20	26.9
LPDM45-25BP	25	30.1

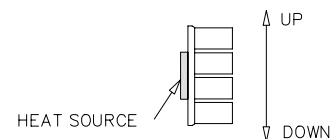
MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



- Δ LPDM45-10BP
- \square LPDM45-15BP
- \circ LPDM45-20BP
- \blacktriangle LPDM45-25BP

- DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE (solid line)
PRESSURE DROP (dashed line)
- NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSIPATED POWER: 7.5(W)



NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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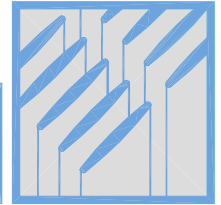
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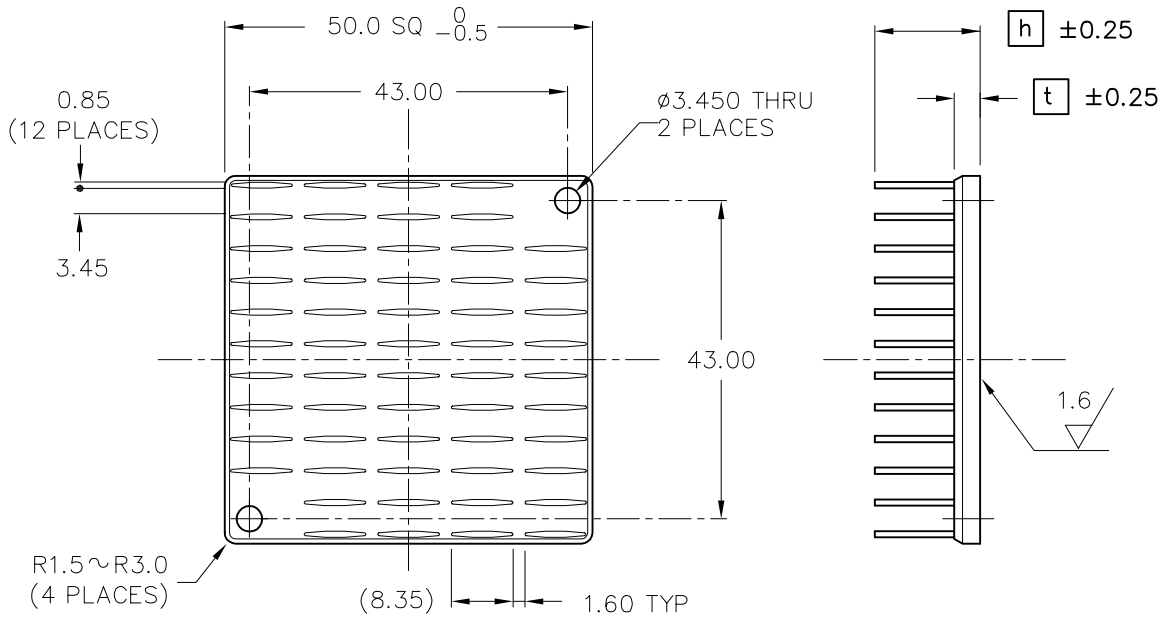
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDM 50



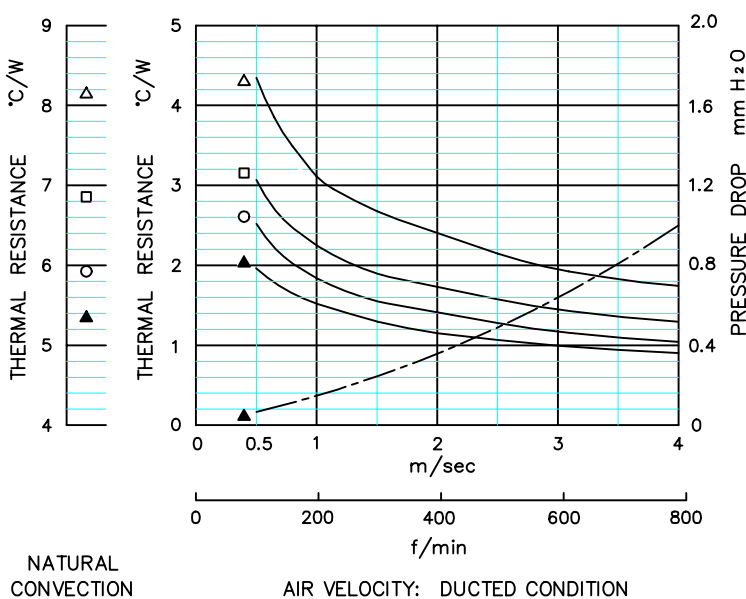
DIM



MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
LPDM50-10BP	10	3.0	29.9
LPDM50-15BP	15	3.5	35.4
LPDM50-20BP	20		37.9
LPDM50-25BP	25		40.5

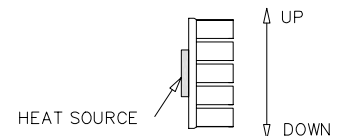
MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- Δ LPDM50-10BP
- \square LPDM50-15BP
- \circ LPDM50-20BP
- \blacktriangle LPDM50-25BP

- \bullet DUCTED CONDITION
 DUMMY HEATER SIZE: 12.7 SQ
 THERMAL RESISTANCE ———
 PRESSURE DROP - - - -
- \circ NATURAL CONVECTION
 DUMMY HEATER SIZE: 12.7 SQ
 DISSIPATED POWER: 8.0(W)



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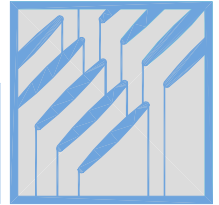
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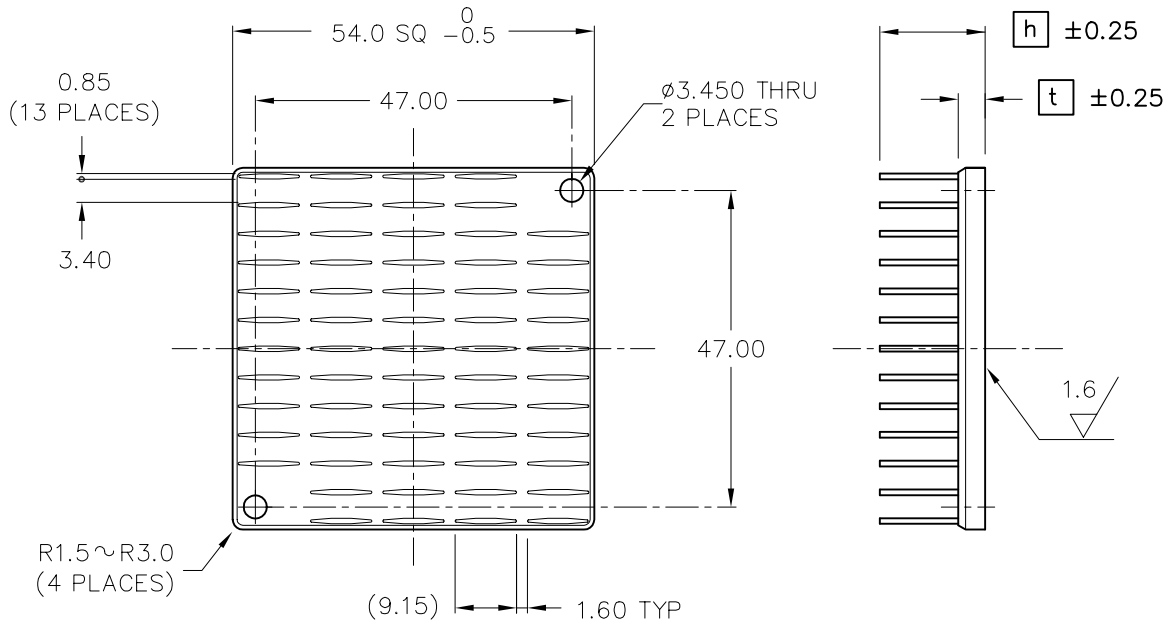
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDM 54



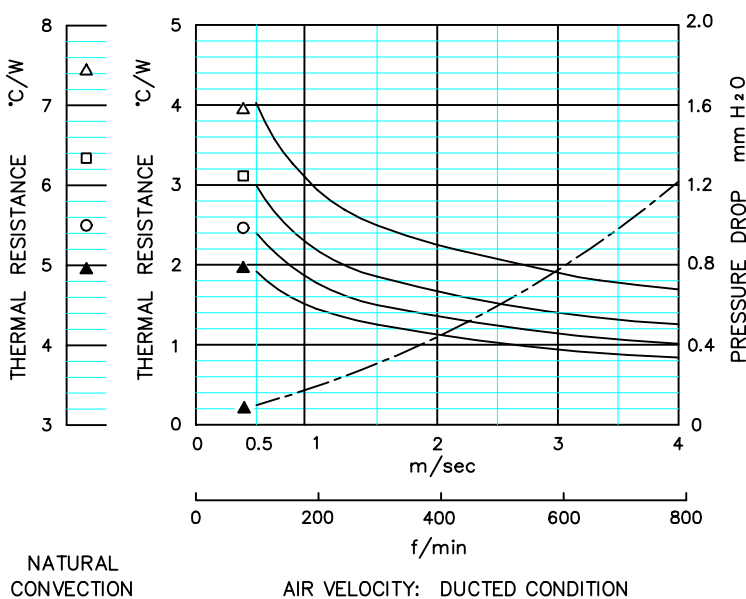
DIM



MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
LPDM54-10BP	10	3.0	30.4
LPDM54-15BP	15	4.0	41.5
LPDM54-20BP	20		46.1
LPDM54-25BP	25		50.7

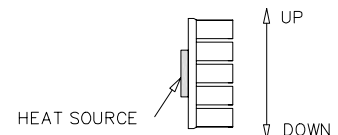
MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- Δ LPDM54-10BP
- \square LPDM54-15BP
- \circ LPDM54-20BP
- \blacktriangle LPDM54-25BP

- DUCTED CONDITION
 DUMMY HEATER SIZE: 12.7 SQ
 THERMAL RESISTANCE ———
 PRESSURE DROP - - - - -
- NATURAL CONVECTION
 DUMMY HEATER SIZE: 12.7 SQ
 DISSIPATED POWER: 8.3(W)



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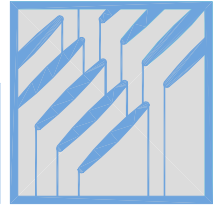
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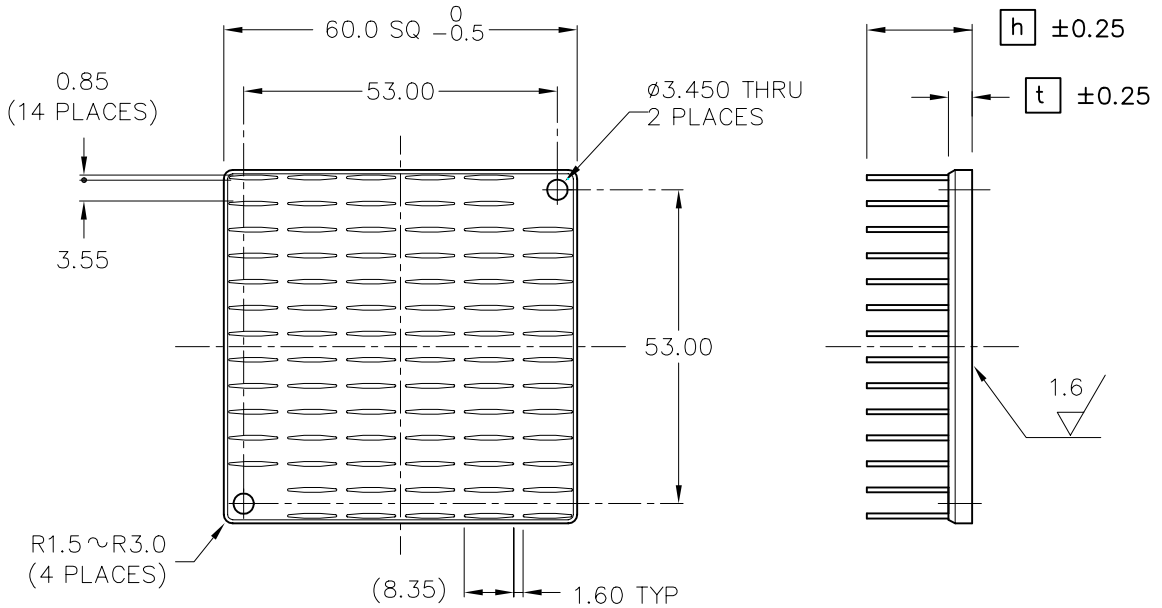
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDM 60



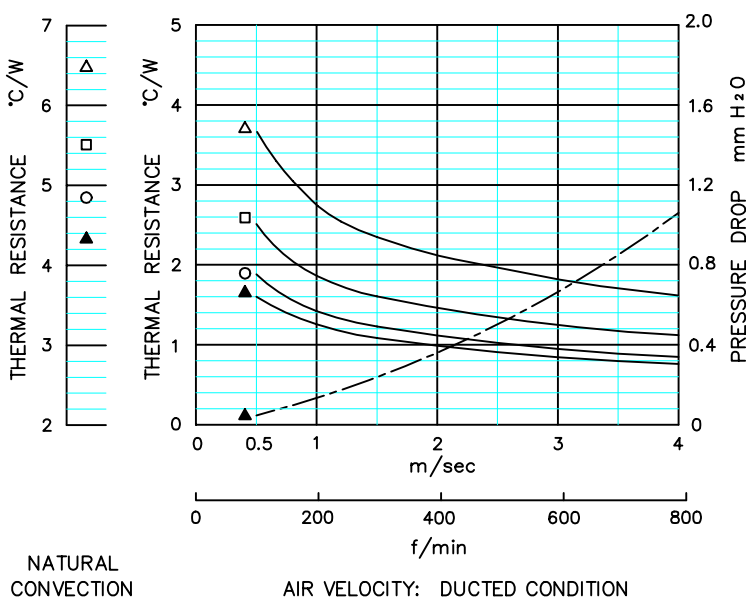
DIM



MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
LPDM60-10BP	10	3.0	36.8
LPDM60-15BP	15	4.0	50.6
LPDM60-20BP	20		56.1
LPDM60-25BP	25		61.6

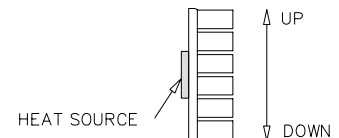
MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- △ LPDM60-10BP
- LPDM60-15BP
- LPDM60-20BP
- ▲ LPDM60-25BP

- DUCTED CONDITION
 DUMMY HEATER SIZE: 12.7 SQ
 THERMAL RESISTANCE _____
 PRESSURE DROP - - - - -
- NATURAL CONVECTION
 DUMMY HEATER SIZE: 12.7 SQ
 DISSIPATED POWER: 9.9(W)



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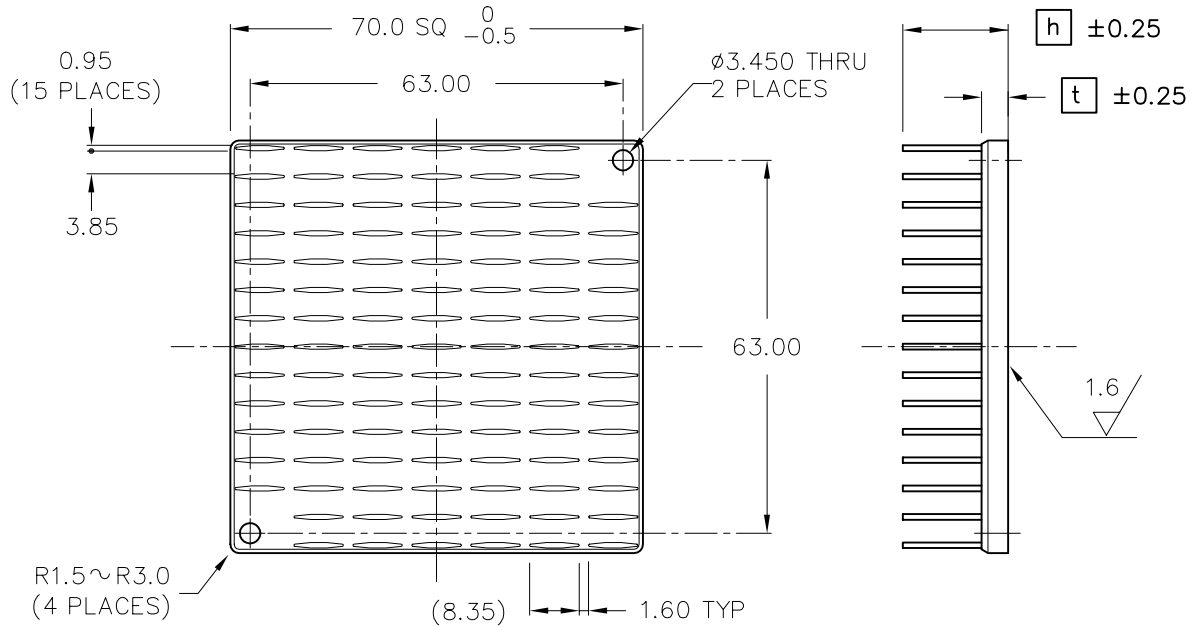
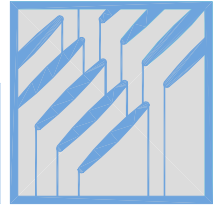
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ALPHA

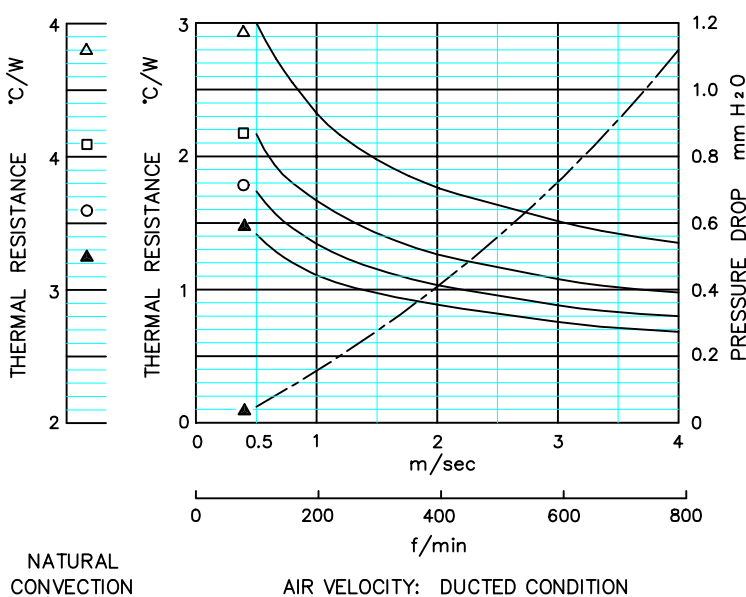
Low Pressure Drop Heat Sink
with attachment holes

LPDM 70



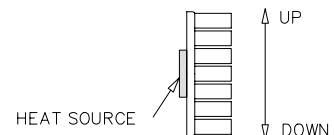
MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
LPDM70-10BP	10	3.0	59.4
LPDM70-15BP	15	4.0	70.9
LPDM70-20BP	20		78.8
LPDM70-25BP	25		86.8

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm



- △ LPDM70-10BP
- LPDM70-15BP
- LPDM70-20BP
- ▲ LPDM70-25BP

- DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESURE DROP - - - - -
- NATURAL CONVECTION
DUMMY HEATER SIZE: 25.4 SQ
DISSIPATED POWER: 13.3(W)



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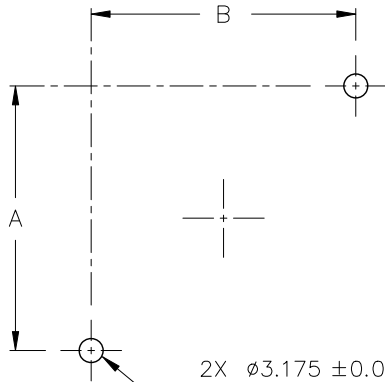
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REF



PCB HOLE LAYOUT



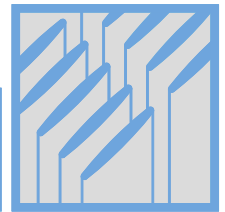
2X $\phi 3.175 \pm 0.05$ [$\phi .125 \pm .002$]
 USE OF PLATED HOLES TO REDUCE EXCESSIVE WEAR
 AND INSERTION FORCE IS RECOMMENDED.

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	43.0	43.0
LPDM54, UBM54, ZM54	47.0	47.0
LPDM60, UBM60, ZM60	53.0	53.0
LPDM70, UBM70	63.0	63.0
MODEL	A	B

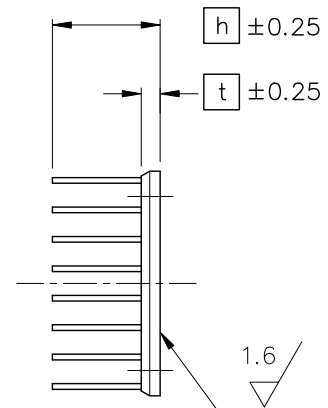
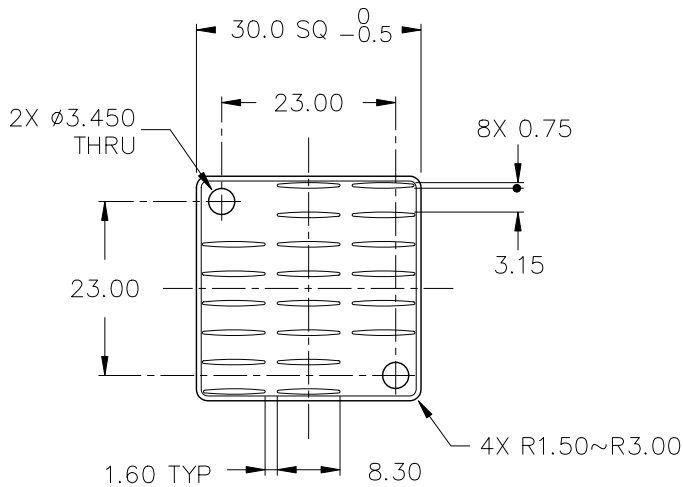
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDH 30



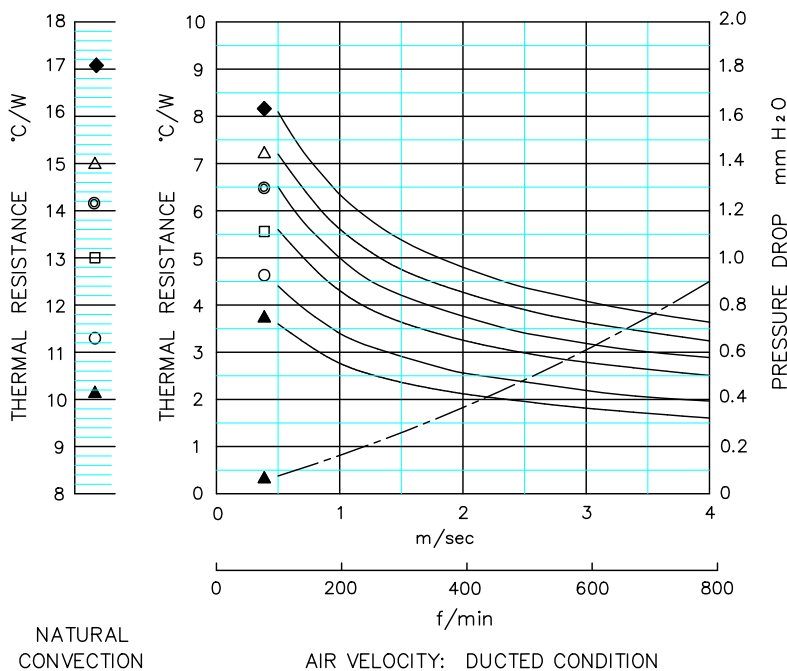
DIM



MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
LPDH30-8BP	8	2.00	6.2
LPDH30-10BP	10	2.50	7.7
LPDH30-12BP	12		8.3
LPDH30-15BP	15		9.1
LPDH30-20BP	20		10.5
LPDH30-25BP	25		11.8
LPDH30-[h]BP	$8 \leq [h] < 10$	2.00	-
	$10 \leq [h] \leq 25$	2.50	-

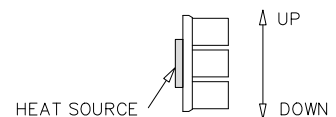
MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



- ◆ LPDH30-8BP
- △ LPDH30-10BP
- ◎ LPDH30-12BP
- LPDH30-15BP
- LPDH30-20BP
- ▲ LPDH30-25BP

- DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESURE DROP - - - - -
- NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSIPATED 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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URL : http://www.micforg.co.jp

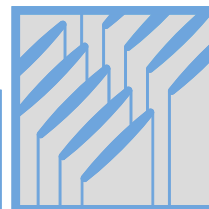
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E mail : sales@alphanovatech.com
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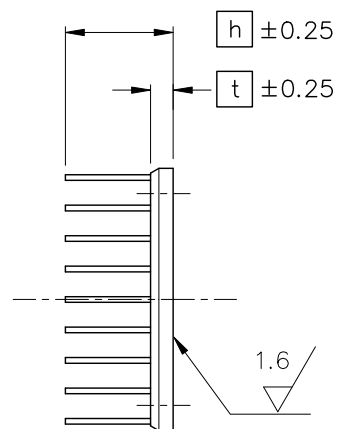
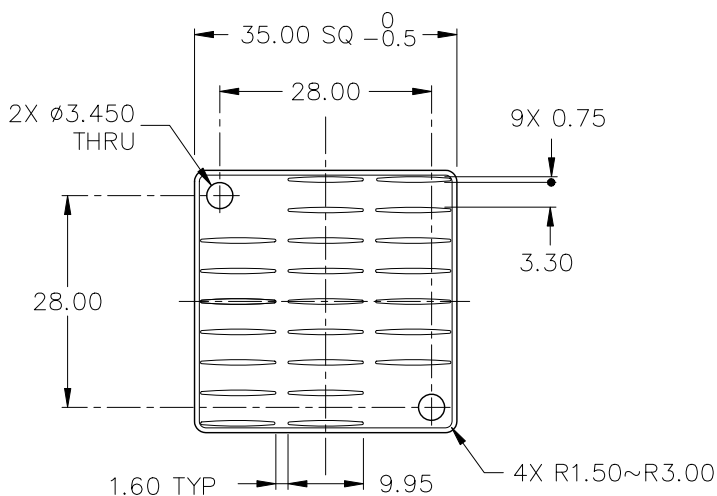
ALPHA

Low Pressure Drop Heat Sink with attachment holes

LPDH 35



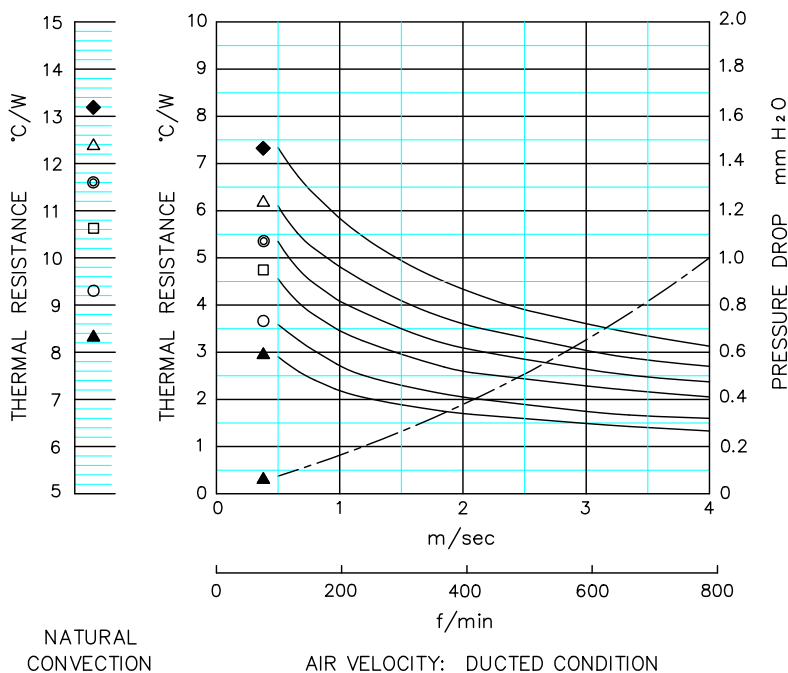
DIM



MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
LPDH35-8BP	8	3.00	8.5
LPDH35-10BP	10		12.1
LPDH35-12BP	12		12.8
LPDH35-15BP	15		14.0
LPDH35-20BP	20		15.8
LPDH35-25BP	25		17.7
LPDH35- h BP	$8 \leq h < 10$	2.00	-
	$10 \leq h \leq 25$	3.00	-

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



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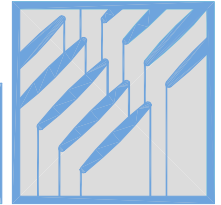
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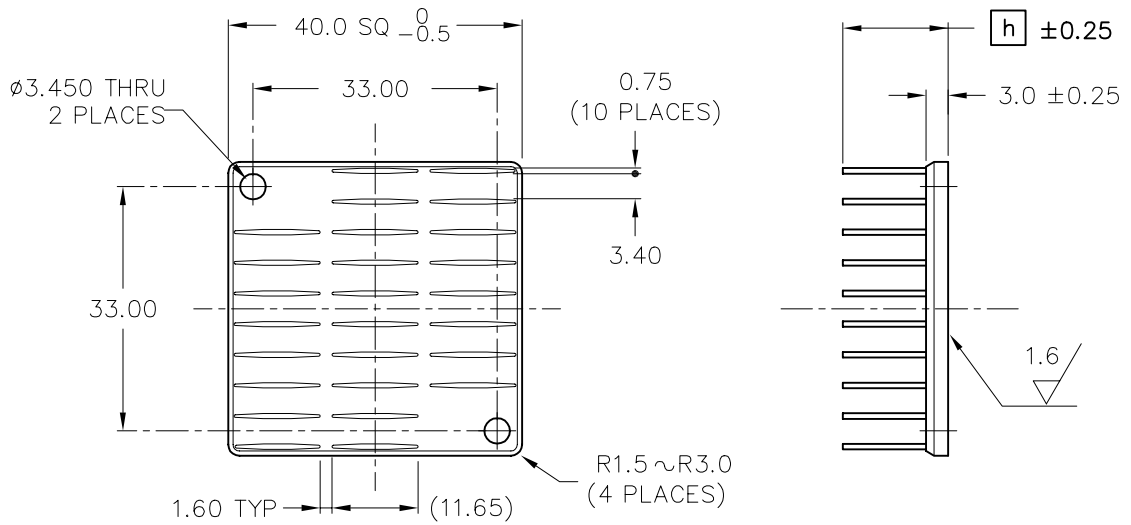
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDH 40



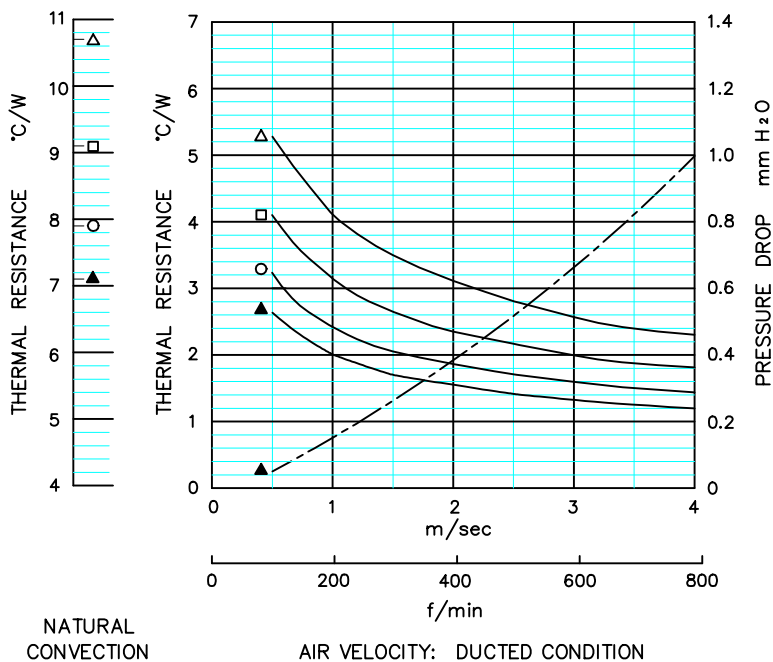
DIM



MODEL	HEIGHT h	WEIGHT (grams)
LPDH40-10BP	10	15.7
LPDH40-15BP	15	18.1
LPDH40-20BP	20	20.6
LPDH40-25BP	25	23.0

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



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

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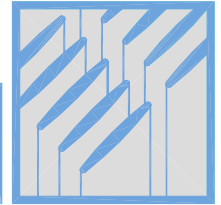
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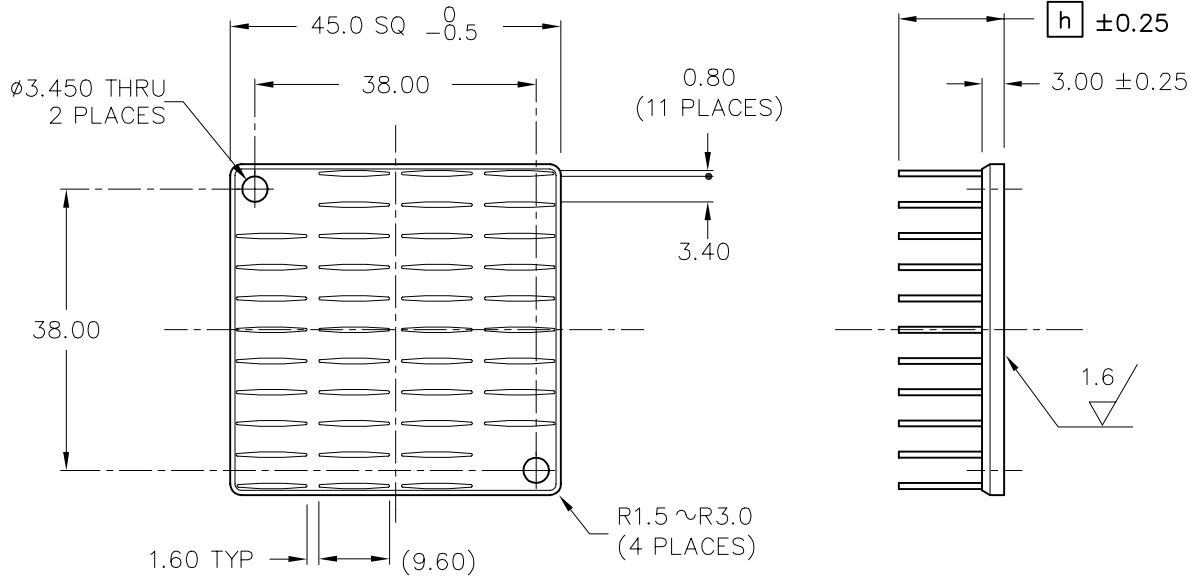
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDH 45



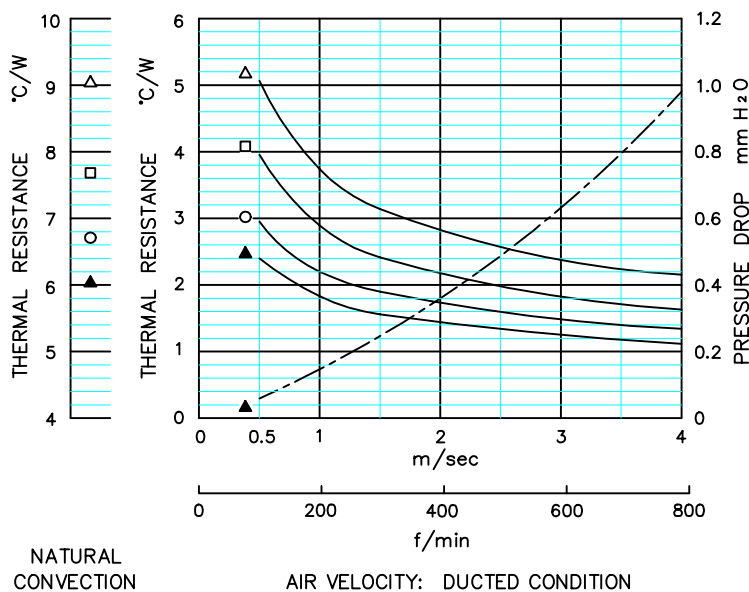
DIM



MODEL	HEIGHT h	WEIGHT (grams)
LPDH45-10BP	10	20.6
LPDH45-15BP	15	23.8
LPDH45-20BP	20	26.9
LPDH45-25BP	25	30.1

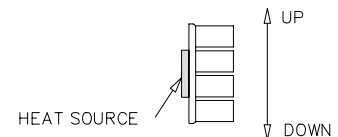
MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- △ LPDH45-10BP
- LPDH45-15BP
- LPDH45-20BP
- ▲ LPDH45-25BP

- DUCTED CONDITION
 DUMMY HEATER SIZE: 12.7 SQ
 THERMAL RESISTANCE ———
 PRESURE DROP - - - - -
- NATURAL CONVECTION
 DUMMY HEATER SIZE: 12.7 SQ
 DISSIPATED POWER: 7.5(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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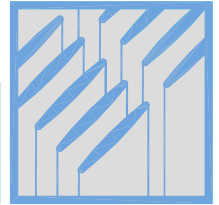
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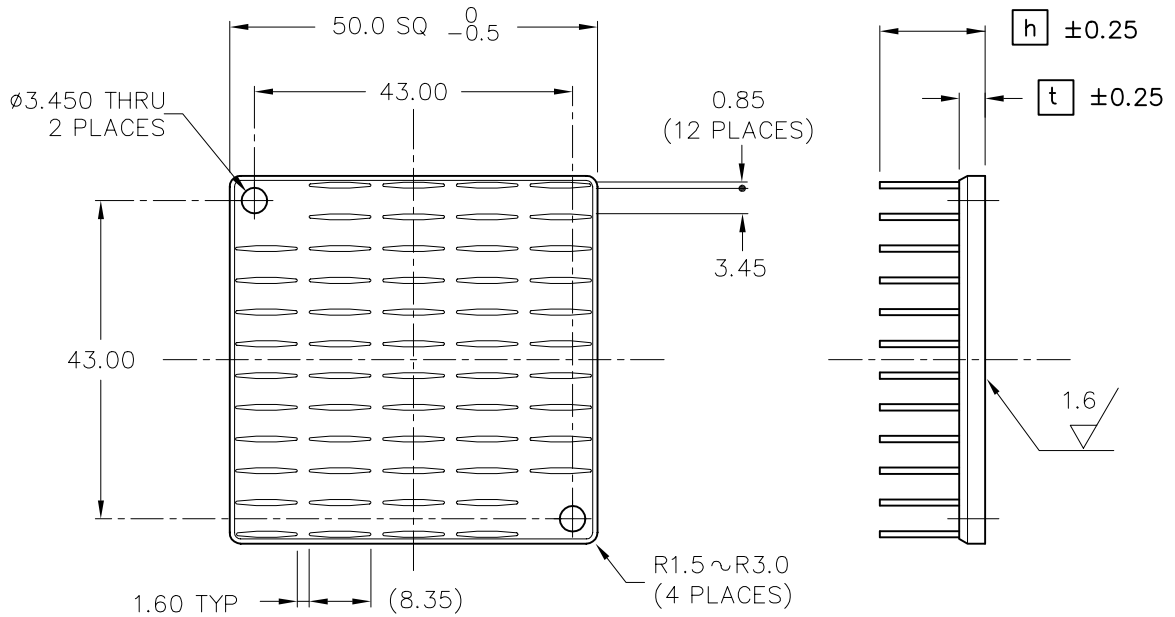
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDH 50



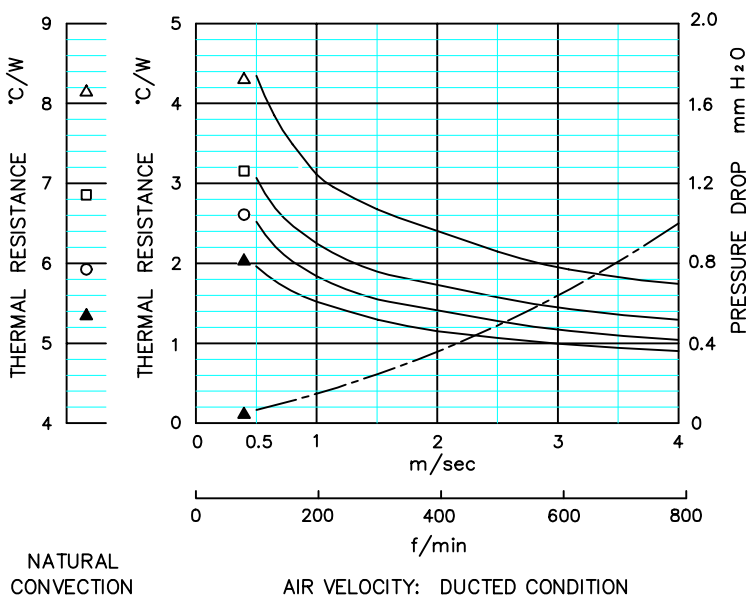
DIM



MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
LPDH50-10BP	10	3.0	29.9
LPDH50-15BP	15	3.5	35.4
LPDH50-20BP	20		37.9
LPDH50-25BP	25		40.5

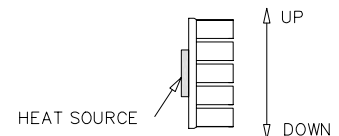
MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- Δ LPDH50-10BP
- \square LPDH50-15BP
- \circ LPDH50-20BP
- \blacktriangle LPDH50-25BP

- DUCTED CONDITION
 DUMMY HEATER SIZE: 12.7 SQ
 THERMAL RESISTANCE ———
 PRESSURE DROP - - - - -
- NATURAL CONVECTION
 DUMMY HEATER SIZE: 12.7 SQ
 DISSIPATED POWER: 8.0(W)



NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

- BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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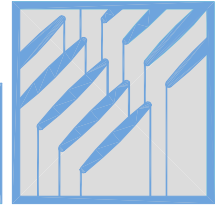
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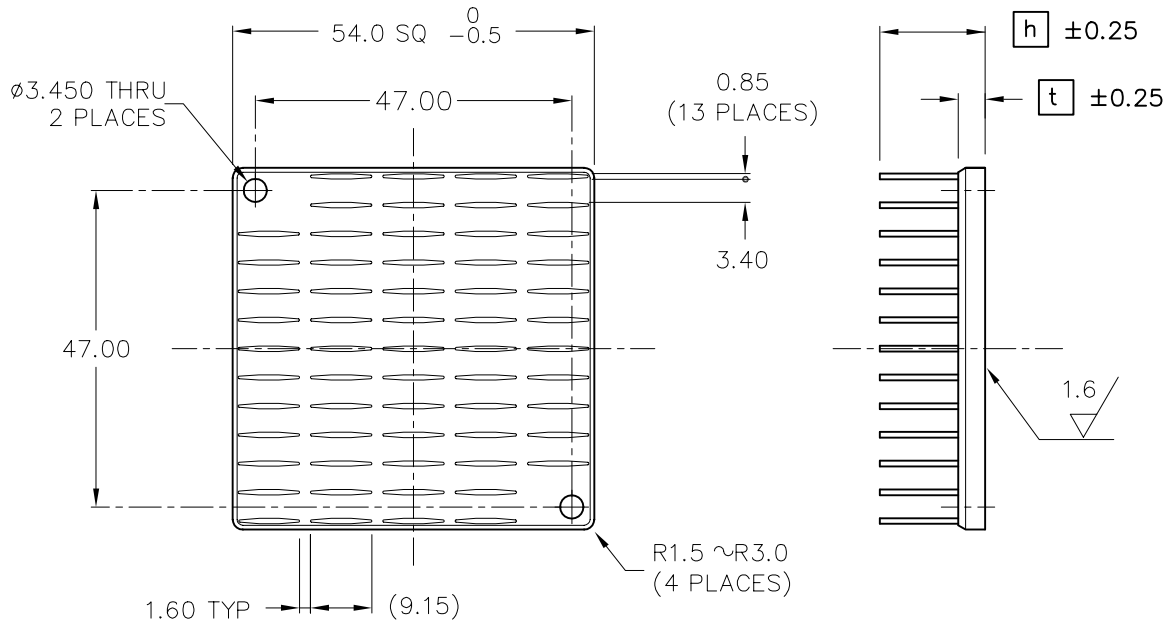
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDH 54



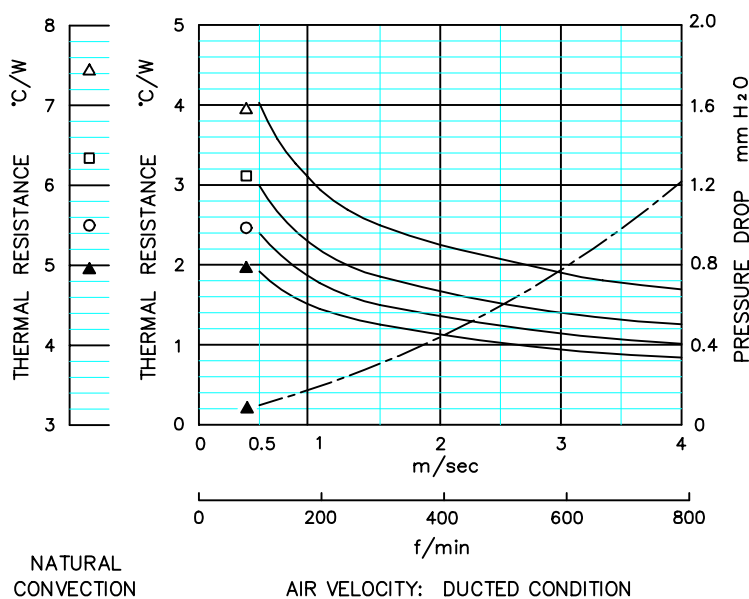
DIM



MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
LPDH54-10BP	10	3.0	30.4
LPDH54-15BP	15	4.0	41.5
LPDH54-20BP	20		46.1
LPDH54-25BP	25		50.7

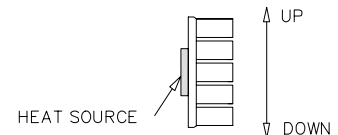
MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



- △ LPDH54-10BP
- LPDH54-15BP
- LPDH54-20BP
- ▲ LPDH54-25BP

- DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -
- NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSIPATED POWER: 8.3(W)



NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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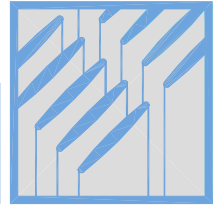
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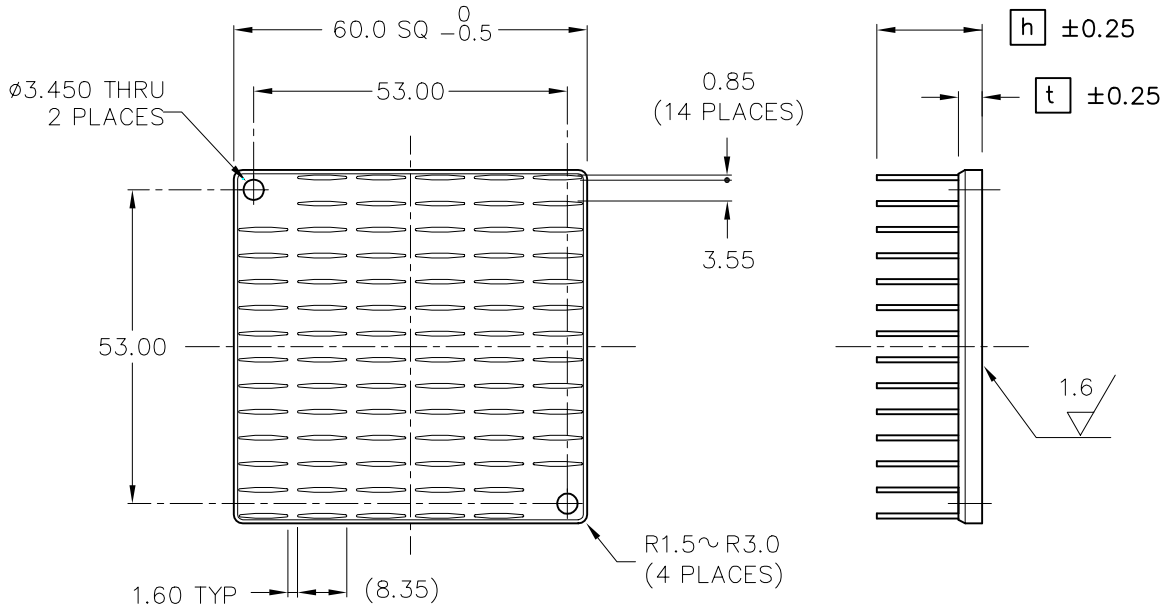
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDH 60



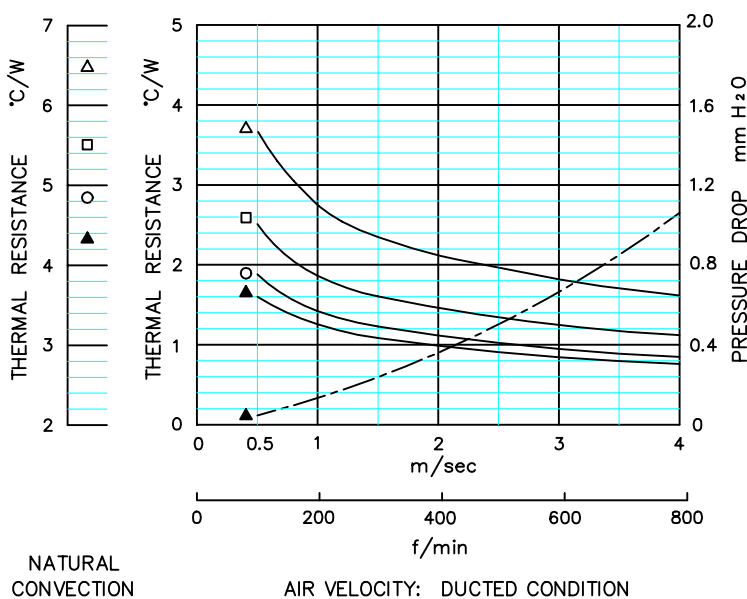
DIM



MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
LPDH60-10BP	10	3.0	36.8
LPDH60-15BP	15	4.0	50.6
LPDH60-20BP	20		56.1
LPDH60-25BP	25		61.6

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



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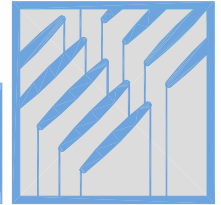
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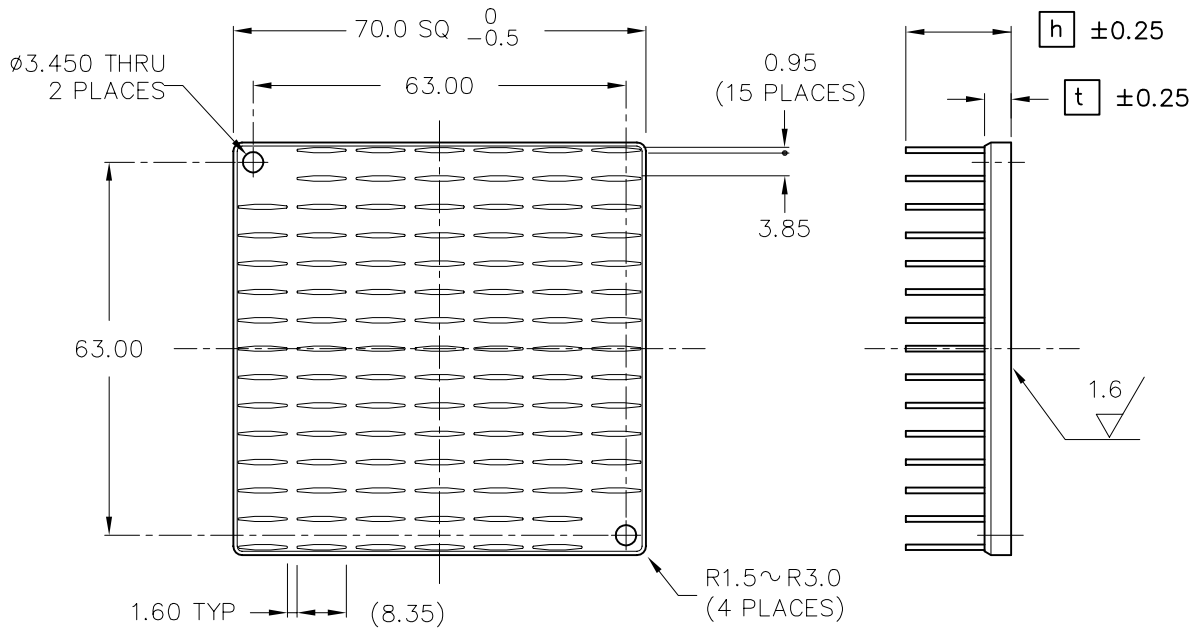
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDH 70



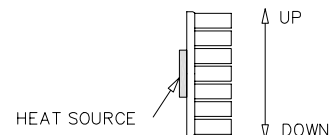
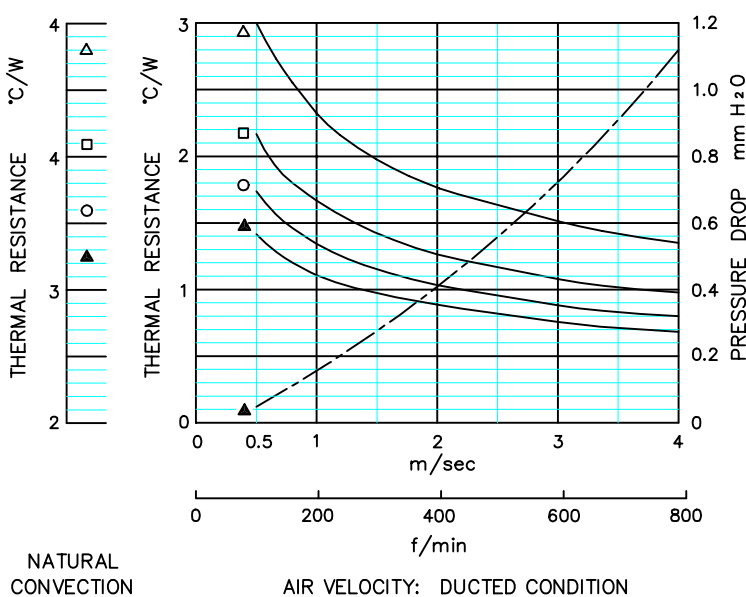
DIM



MODEL	HEIGHT h	THICKNESS t	WEIGHT (grams)
LPDH70-10BP	10	3.0	59.4
LPDH70-15BP	15	4.0	70.9
LPDH70-20BP	20		78.8
LPDH70-25BP	25		86.8

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



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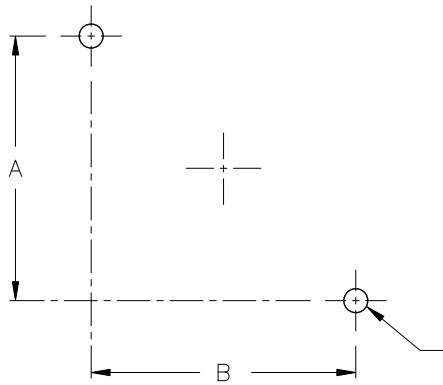
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REF



PCB HOLE LAYOUT



2X $\phi 3.175 \pm 0.05$ [$\phi 1.25 \pm .002$]

USE OF PLATED HOLES TO REDUCE EXCESSIVE WEAR
AND INSERTION FORCE IS RECOMMENDED.

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	43.0	43.0
LPDH54, UBH54, ZH54	47.0	47.0
LPDH60, UBH60, ZH60	53.0	53.0
LPDH70, UBH70	63.0	63.0
MODEL	A	B