

N Series

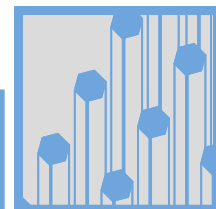
Natural Convection Heat Sink

ALPHA

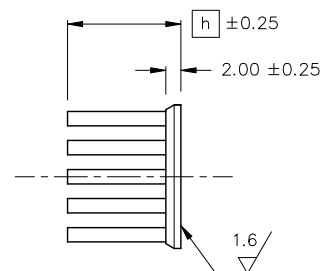
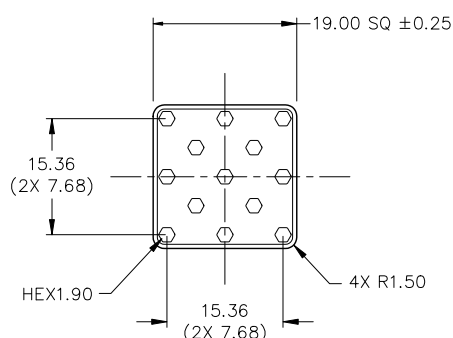
ALPHA

Natural Convection Heat Sink

N19



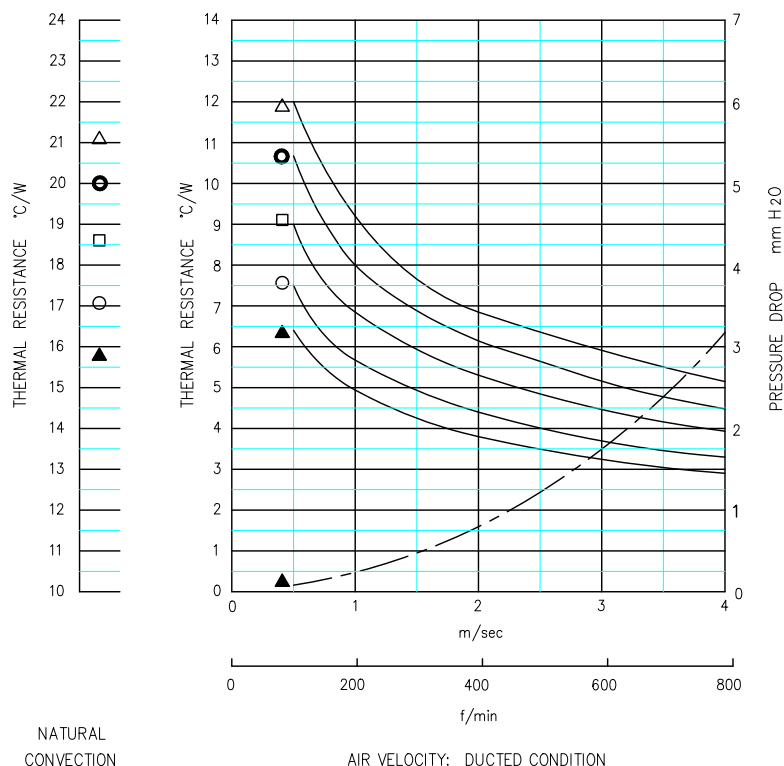
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	WEIGHT (grams)
N19-10B	10	2.8
N19-12B	12	3.0
N19-15B	15	3.3
N19-20B	20	3.8
N19-25B	25	4.3

DATA



Alpha Company Ltd.

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

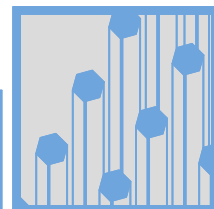
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473 Sapena Ct. #12 Santa Clara, CA 95054 USA
PHONE +1(408)567-8082
FAX +1(408)567-8053
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URL : http://www.alphanovatech.com

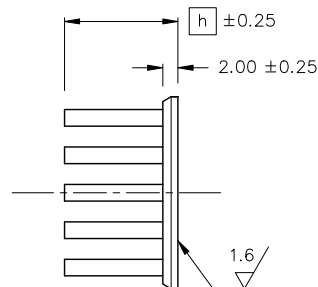
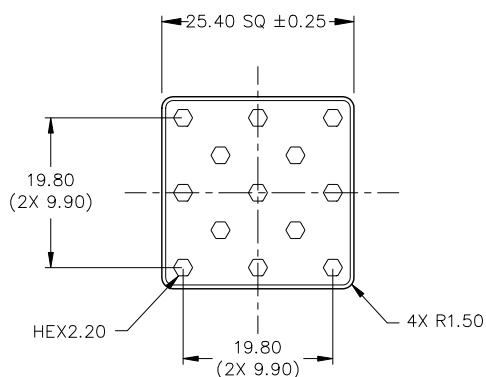
ALPHA

Natural Convection Heat Sink

N25



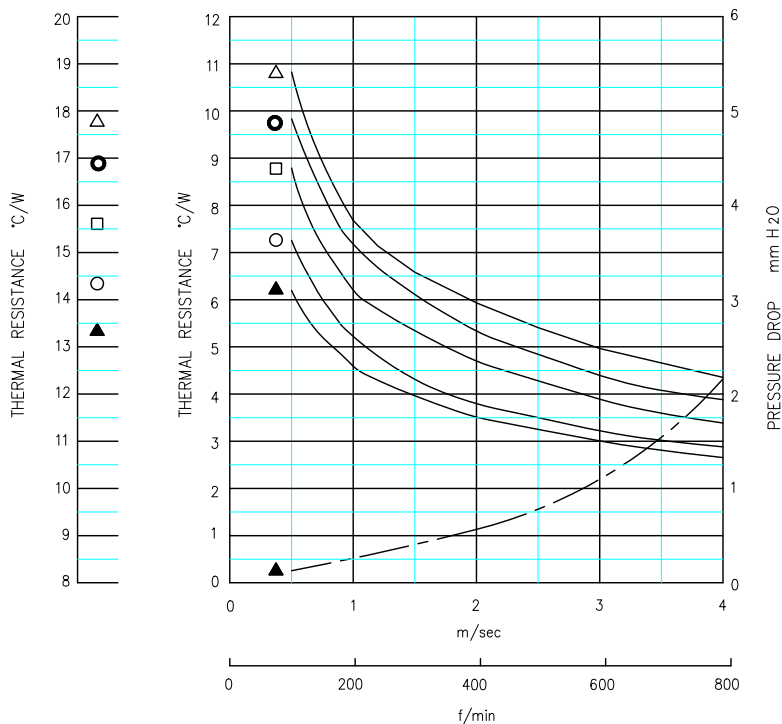
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	WEIGHT (grams)
N25-10B	10	4.6
N25-12B	12	4.9
N25-15B	15	5.3
N25-20B	20	6.0
N25-25B	25	6.7

DATA

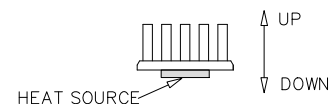


NATURAL
CONVECTION

AIR VELOCITY: DUCTED CONDITION

- △ N25-10B
- N25-12B
- N25-15B
- N25-20B
- ▲ N25-25B

- DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE
PRESSURE DROP
- NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSIPATED POWER: 3.5 (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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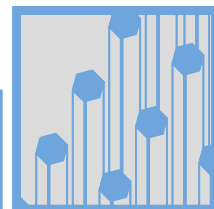
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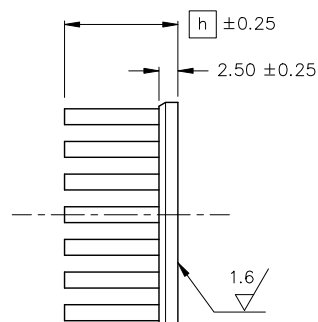
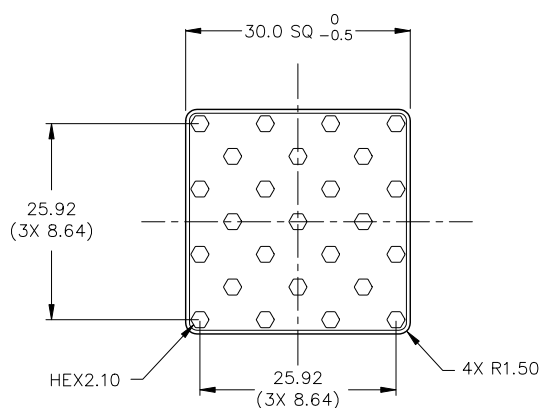
ALPHA

Natural Convection Heat Sink

N30



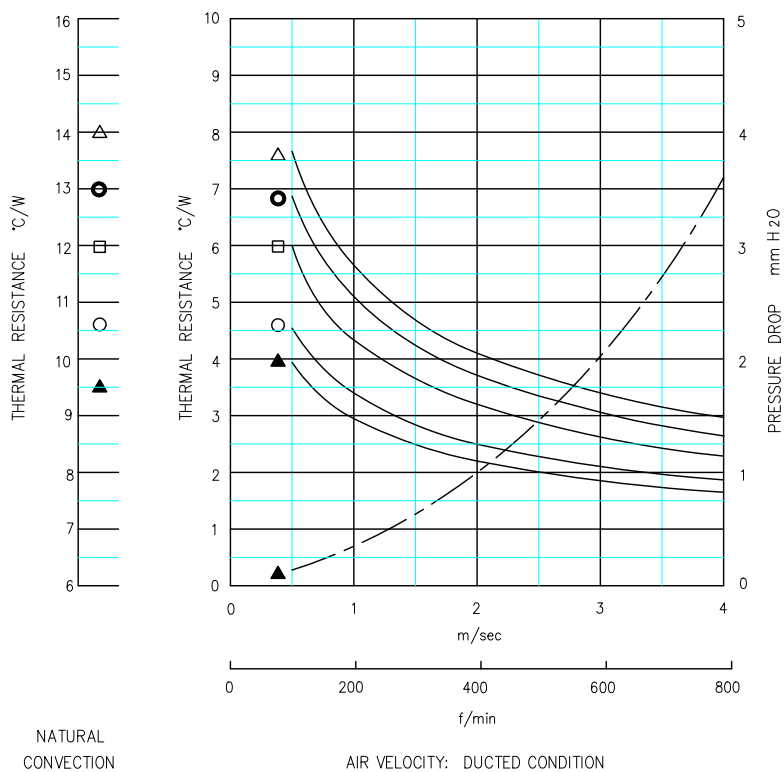
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

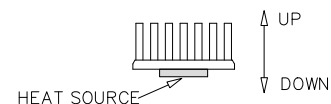
MODEL	HEIGHT [h]	WEIGHT (grams)
N30-10B	10	7.8
N30-12B	12	8.4
N30-15B	15	9.2
N30-20B	20	10.6
N30-25B	25	12.0

DATA



- △ N30-10B
- N30-12B
- N30-15B
- ◇ N30-20B
- ★ N30-25B

- DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE
PRESSURE DROP
- NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSIPATED POWER: 4.9 (W)



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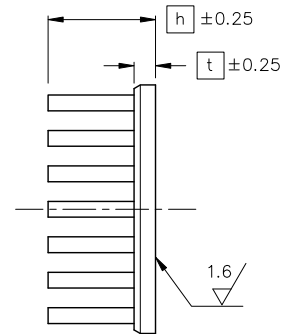
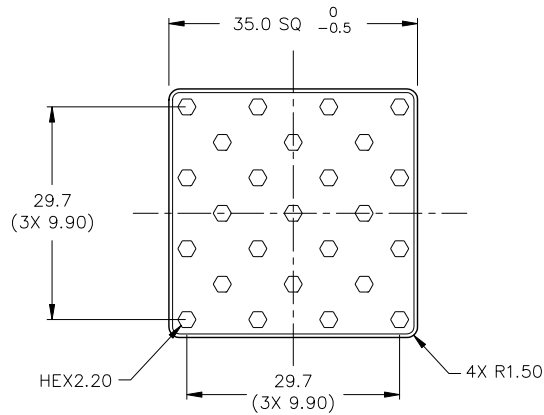
ALPHA

Natural Convection Heat Sink

N35



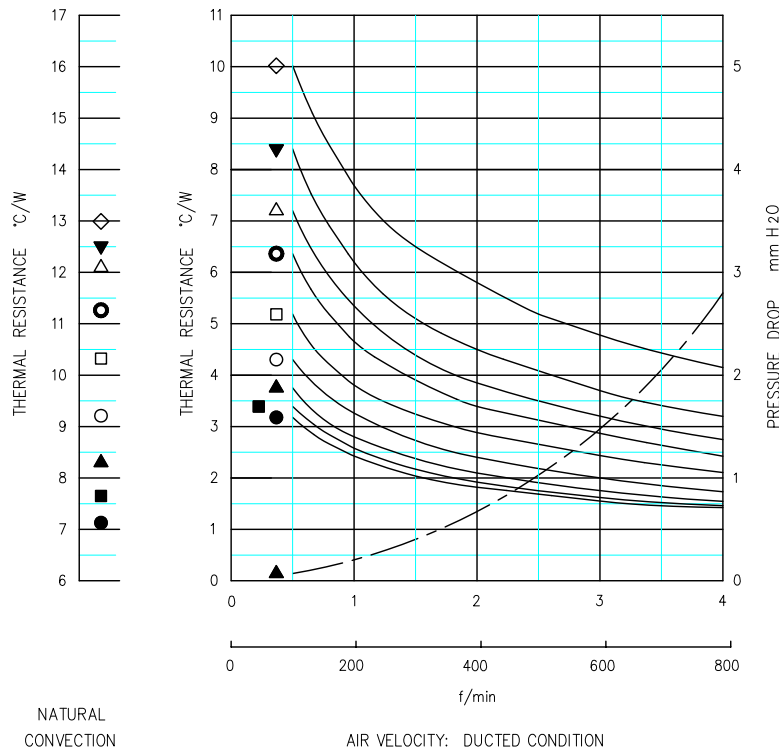
DIM



MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
N35-6B	6	2.00	7.5
N35-8B	8		8.1
N35-10B	10		11.8
N35-12B	12		12.2
N35-15B	15	3.00	13.2
N35-20B	20		14.6
N35-25B	25		16.0
N35-30B	30		17.3
N35-35B	35		18.7
N35-[h]B	[h] ≤ 8	2.00	-
	8 < [h] ≤ 35	3.00	-

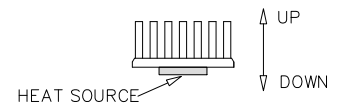
MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



- ◇ N35-6B
- ▼ N35-8B
- △ N35-10B
- N35-12B
- N35-15B
- N35-20B
- ▲ N35-25B
- N35-30B
- N35-35B

- DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE
PRESSURE DROP
- NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSIPATED POWER: 5.7 (W)



NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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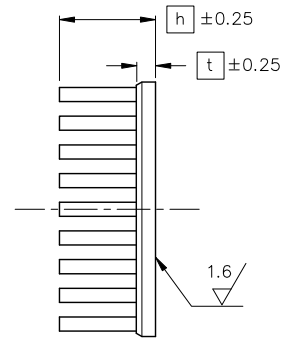
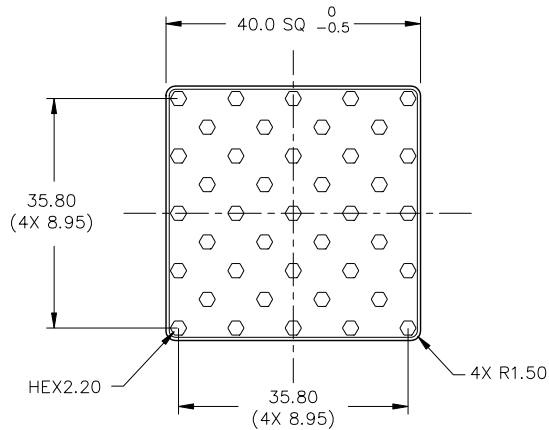
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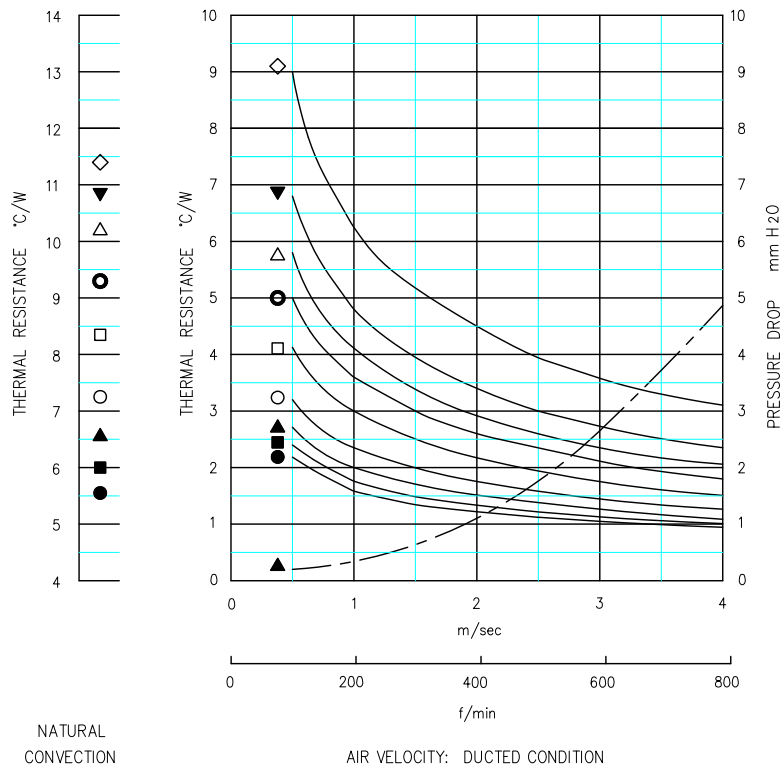
Natural Convection Heat Sink

N40



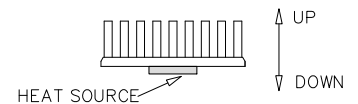
MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
N40-6B	6	2.00	10.2
N40-8B	8		11.2
N40-10B	10		16.1
N40-12B	12		16.8
N40-15B	15	3.00	18.4
N40-20B	20		20.7
N40-25B	25		23.0
N40-30B	30		25.1
N40-35B	35		27.4
N40-[h]B	[h] ≤ 8	2.00	-
	8 < [h] ≤ 35	3.00	-

MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm



- ◇ N40-6B
- ▼ N40-8B
- △ N40-10B
- N40-12B
- N40-15B
- N40-20B
- ▲ N40-25B
- N40-30B
- N40-35B

- DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE
PRESSURE DROP
- NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSIPATED POWER: 6.4 (W)



NOTE ORIENTATION OF HEAT SINK USED FOR NATURAL CONVECTION TESTING

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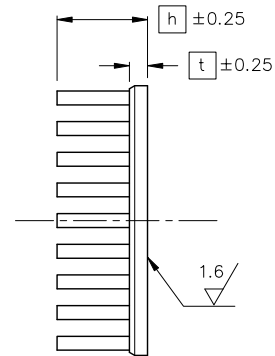
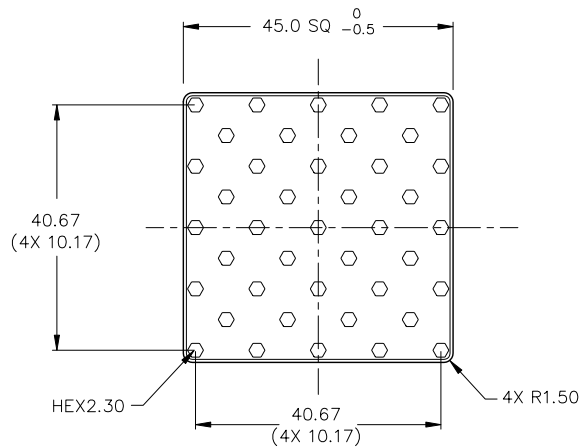
ALPHA

Natural Convection Heat Sink

N45



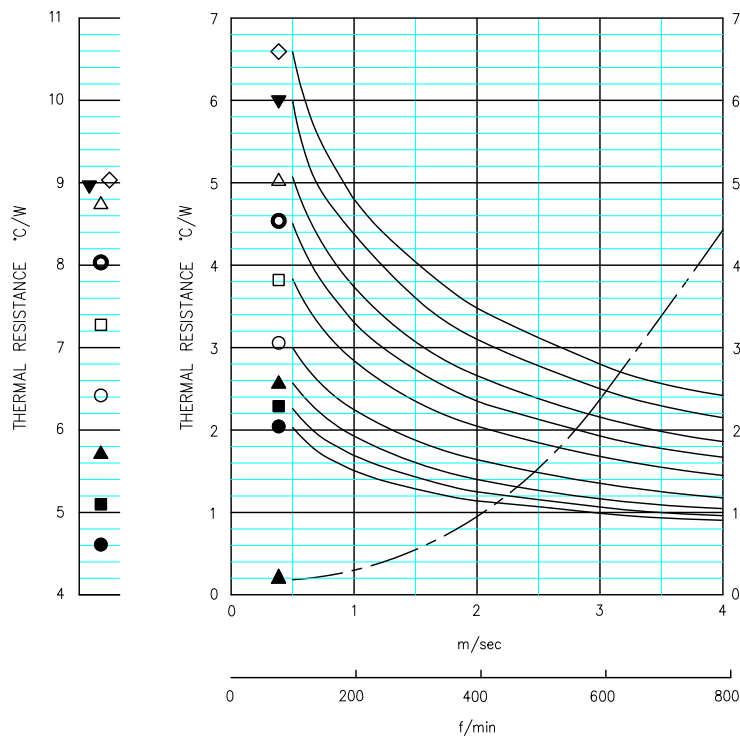
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

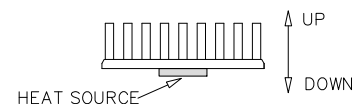
MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
N45-6B	6	2.00	12.7
N45-8B	8		13.7
N45-10B	10		19.8
N45-12B	12	3.00	20.6
N45-15B	15		22.3
N45-20B	20		24.9
N45-25B	25		27.4
N45-30B	30		29.7
N45-35B	35		32.2
N45-[h]B	[h] ≤ 8	2.00	-
	8 < [h] ≤ 35	3.00	-

DATA



- ◇ N45-6B
- ▼ N45-8B
- △ N45-10B
- N45-12B
- N45-15B
- N45-20B
- ▲ N45-25B
- N45-30B
- N45-35B

- 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. REFER TO TECHNICAL INFORMATION.

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256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN
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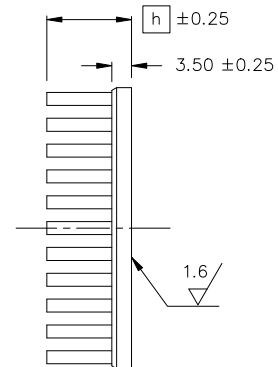
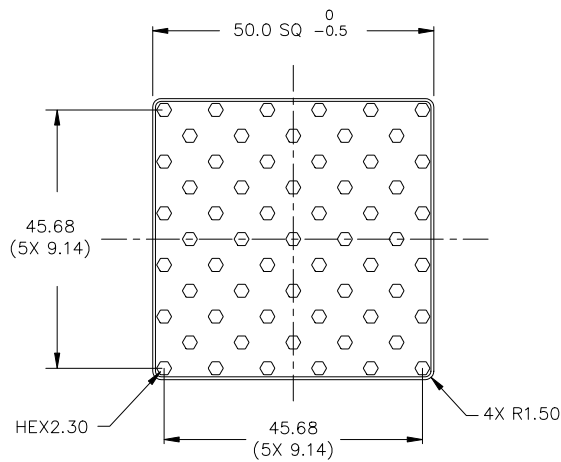
ALPHA

Natural Convection Heat Sink

N50



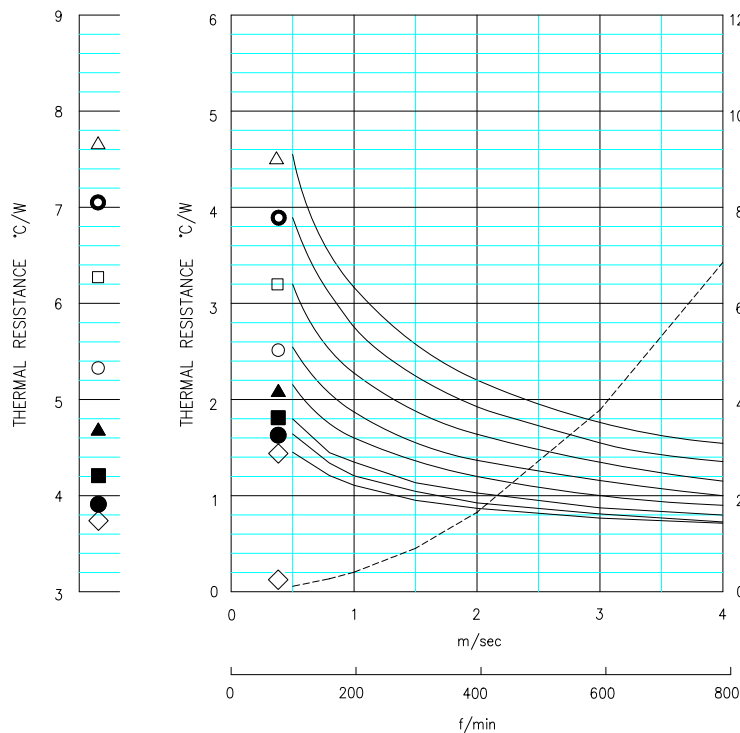
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MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

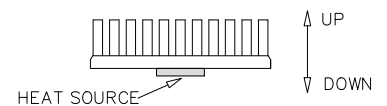
MODEL	HEIGHT [h]	WEIGHT (grams)
N50-10B	10	28.9
N50-12B	12	30.3
N50-15B	15	32.4
N50-20B	20	35.8
N50-25B	25	39.4

DATA



△ N50-10B ▲ N50-25B
○ N50-12B ■ N50-30B
□ N50-15B ● N50-35B
○ N50-20B ◇ N50-40B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE
PRESSURE DROP
● NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSIPATED POWER: 9.7 (W)



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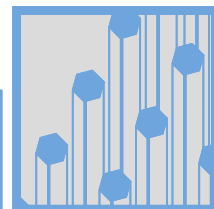
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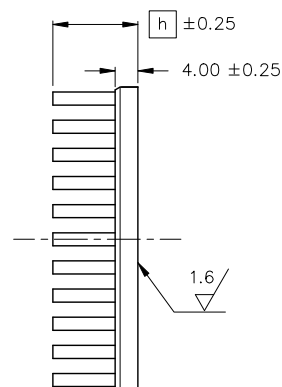
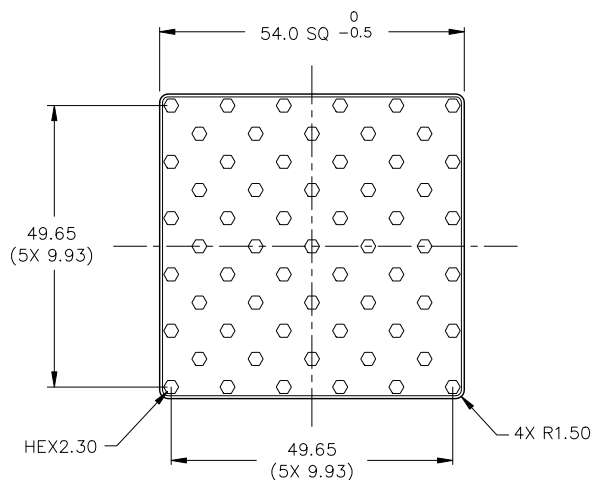
ALPHA

Natural Convection Heat Sink

N54



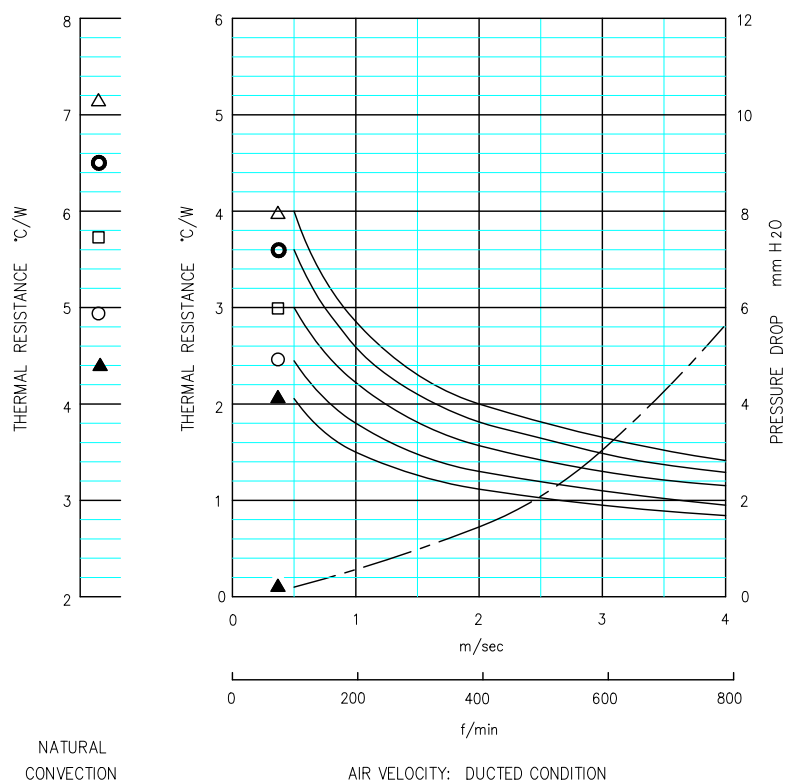
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

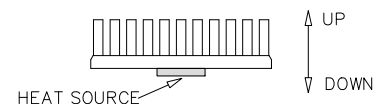
MODEL	HEIGHT [h]	WEIGHT (grams)
N54-10B	10	36.4
N54-12B	12	37.8
N54-15B	15	39.9
N54-20B	20	43.5
N54-25B	25	46.8

DATA



- △ N54-10B
- N54-12B
- N54-15B
- N54-20B
- ▲ N54-25B

- DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE
PRESSURE DROP
- NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSIPATED POWER: 10.5 (W)



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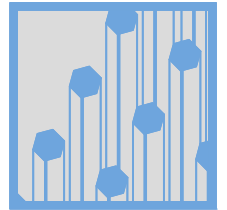
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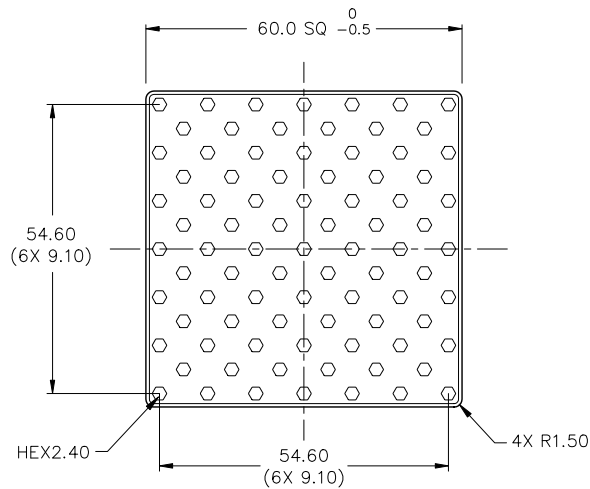
ALPHA

Natural Convection Heat Sink

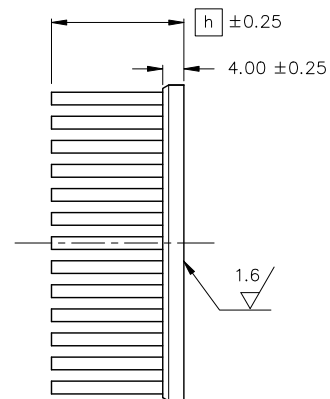
N60



DIM

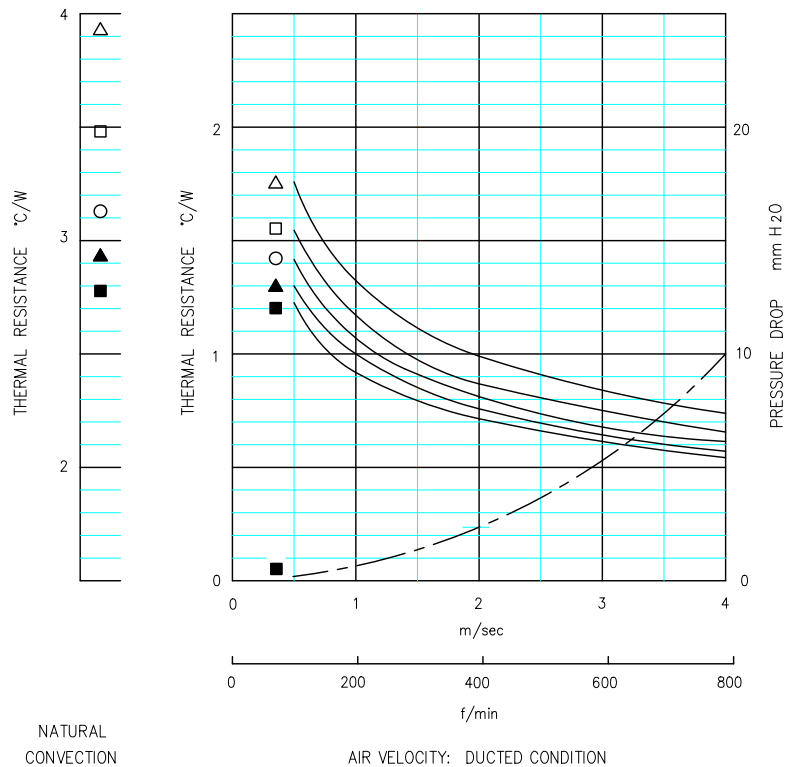


MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm



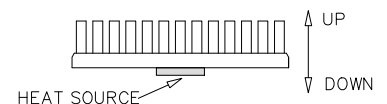
MODEL	HEIGHT [h]	WEIGHT (grams)
N60-20B	20	57.0
N60-25B	25	62.5
N60-30B	30	68.0
N60-35B	35	73.5
N60-40B	40	79.0

DATA



- △ N60-20B
- N60-25B
- N60-30B
- ▲ N60-35B
- N60-40B

- DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE
PRESSURE DROP
- NATURAL CONVECTION
DUMMY HEATER SIZE: 12.7 SQ
DISSIPATED POWER: 13.0 (W)



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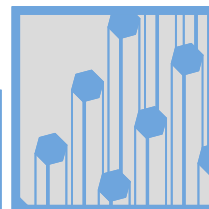
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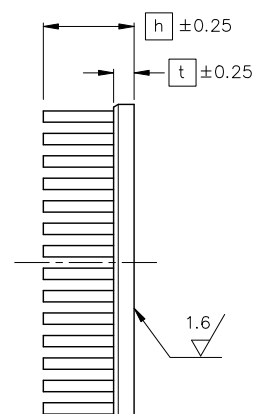
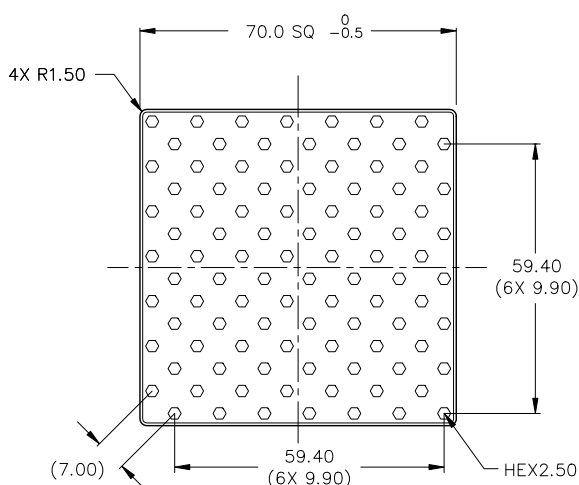
ALPHA

Natural Convection Heat Sink

N70



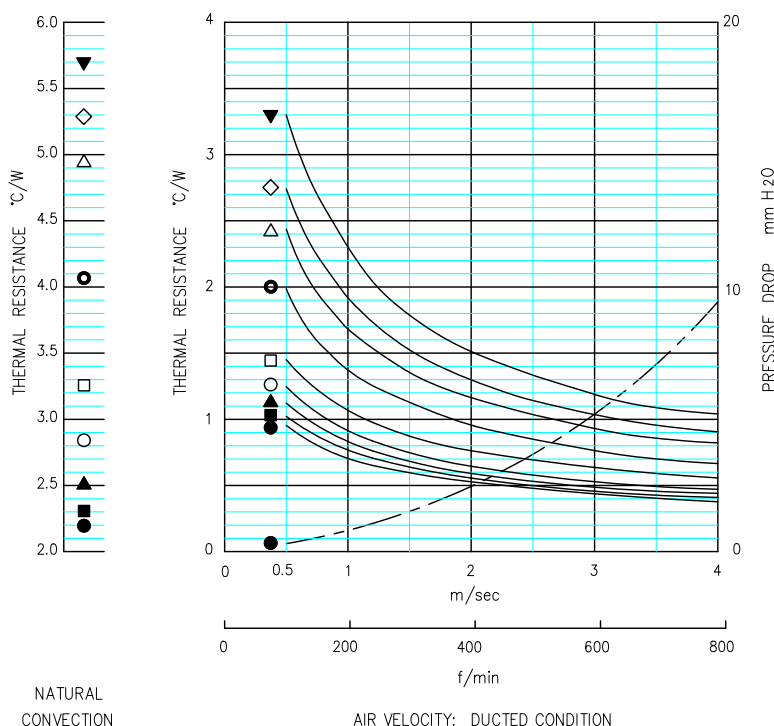
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
N70-8B	8	3.00	46.5
N70-10B	10		49.4
N70-12B	12		52.2
N70-15B	15	4.50	74.0
N70-20B	20		81.2
N70-25B	25		88.3
N70-30B	30		95.5
N70-35B	35		102.6
N70-40B	40		109.8
N70-[h]B	[h] ≤ 12	3.00	-
	12 < [h] ≤ 40	4.50	-

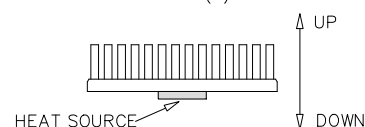
DATA



- ▼ N70-8B
- ◇ N70-10B
- △ N70-12B
- N70-15B
- N70-20B
- N70-25B
- ▲ N70-30B
- N70-35B
- N70-40B

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

● NATURAL CONVECTION
DUMMY HEATER SIZE: 25.4 SQ
DISSIPATED POWER:
N70-8B ~ 12B = 8.0 (W)
N70-15B ~ 40B = 16.0 (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
PHONE +81(55)966 0789
FAX +81(55)966 9192
E mail : alpha@micforg.co.jp
URL : <http://www.micforg.co.jp>

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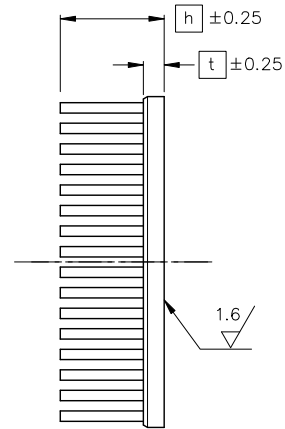
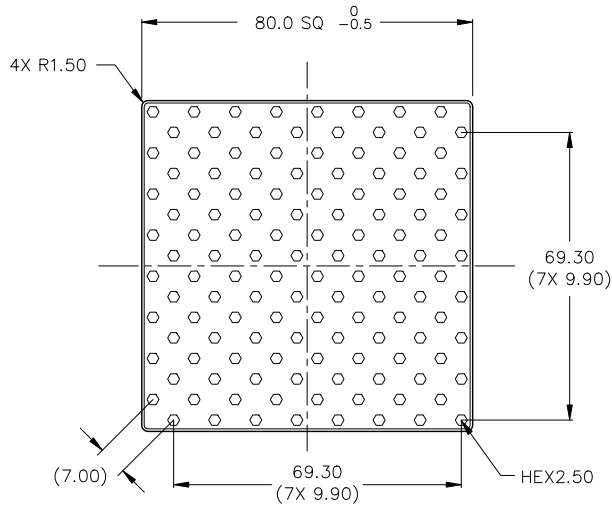
473 Sapena Ct. #12 Santa Clara, CA 95054 USA
PHONE +1(408)567-8082
FAX +1(408)567-8053
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URL : <http://www.alphanovatech.com>

ALPHA

Natural Convection Heat Sink

N80

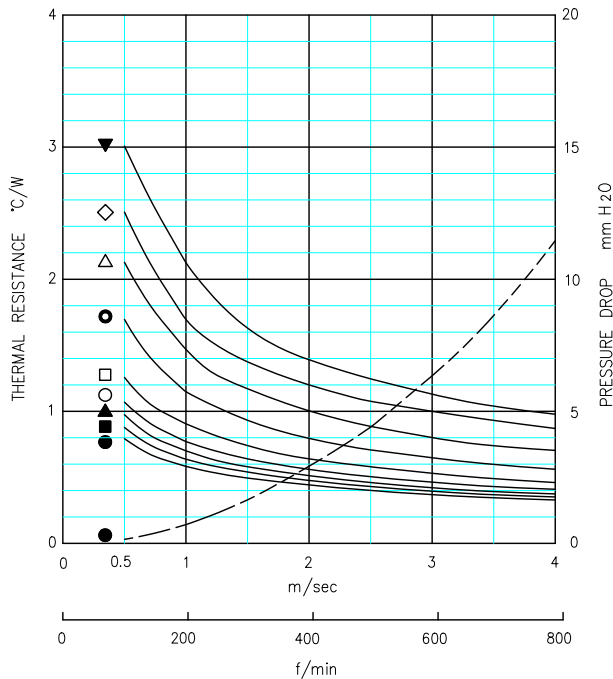
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
N80-8B	8	4.00	76.1
N80-10B	10		79.8
N80-12B	12		84.2
N80-15B	15	5.00	105.3
N80-20B	20		114.5
N80-25B	25		123.8
N80-30B	30		133.0
N80-35B	35		142.2
N80-40B	40		151.5
N80-[h]B	[h] ≤ 12	4.00	-
	12 < [h] ≤ 40	5.00	-

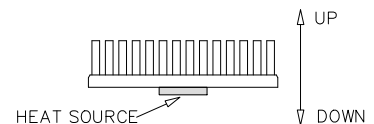
DATA



- ▼ N80-8B
- ◇ N80-10B
- △ N80-12B
- N80-15B
- N80-20B
- N80-25B
- ▲ N80-30B
- N80-35B
- N80-40B

● DUCTED CONDITION
DUMMY HEATER SIZE: 25.4 SQ
THERMAL RESISTANCE
PRESSURE DROP

● NATURAL CONVECTION
DUMMY HEATER SIZE: 25.4 SQ
DISSIPATED POWER: 18.5 (W)



NOTE ORIENTATION OF HEAT SINK USED
FOR NATURAL CONVECTION TESTING

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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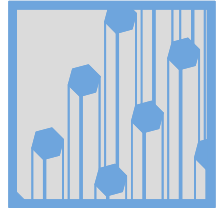
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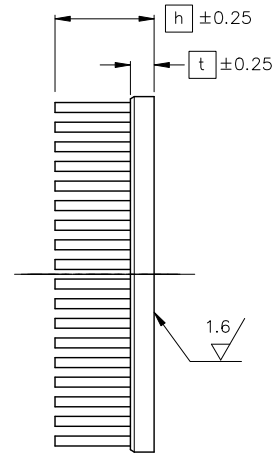
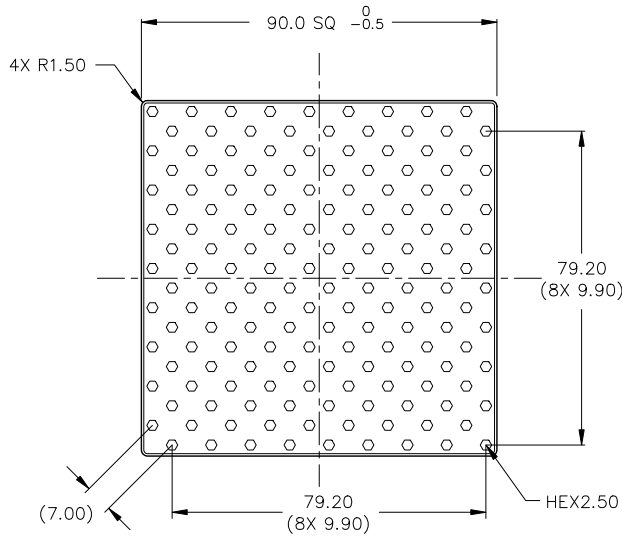
ALPHA

Natural Convection Heat Sink

N90



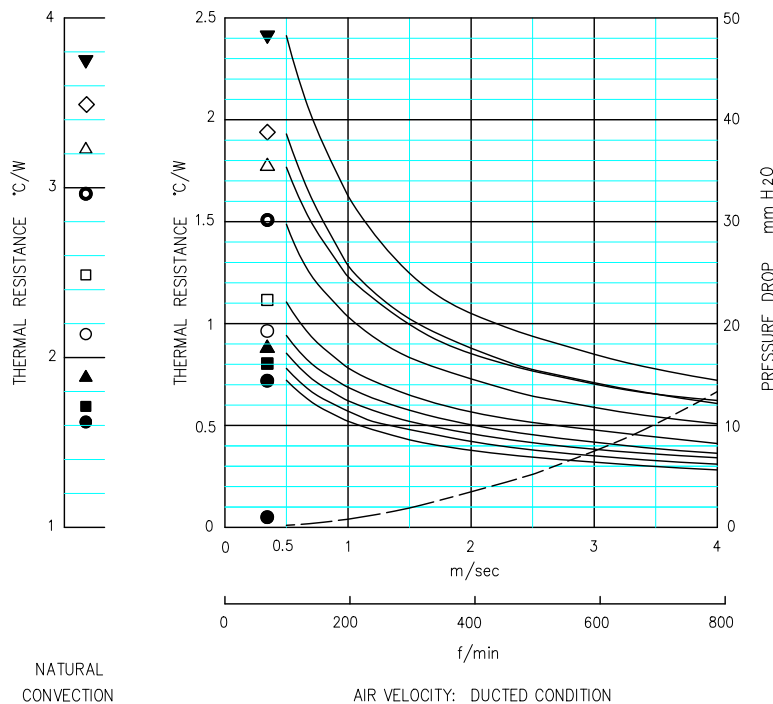
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
N90-8B	8	4.00	96.3
N90-10B	10		101.1
N90-12B	12		105.6
N90-15B	15	5.50	141.6
N90-20B	20		153.6
N90-25B	25		165.7
N90-30B	30		177.7
N90-35B	35		189.8
N90-40B	40		201.8
N90-[h]B	[h] ≤ 12	4.00	-
	12 < [h] ≤ 40	5.50	-

DATA



HEAT SOURCE

UP
DOWN

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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256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN
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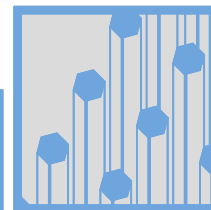
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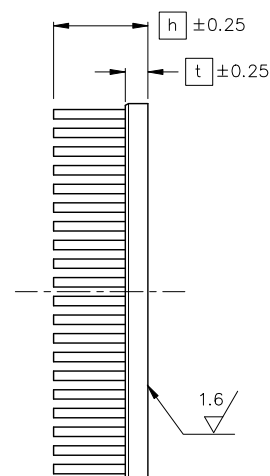
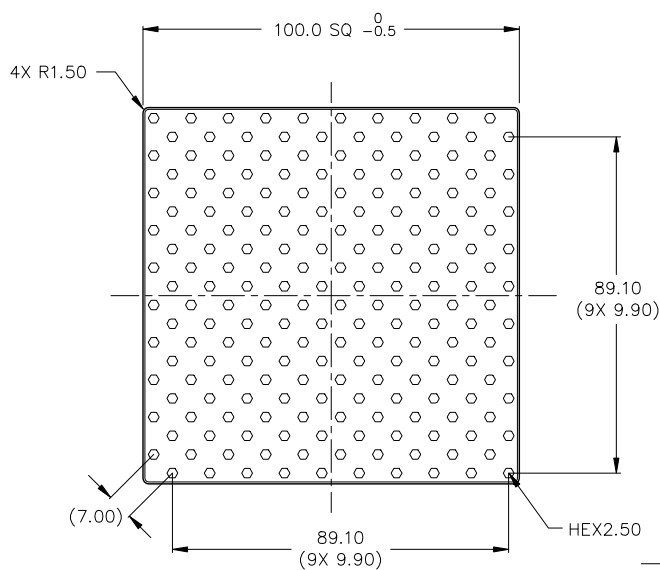
ALPHA

Natural Convection Heat Sink

N100



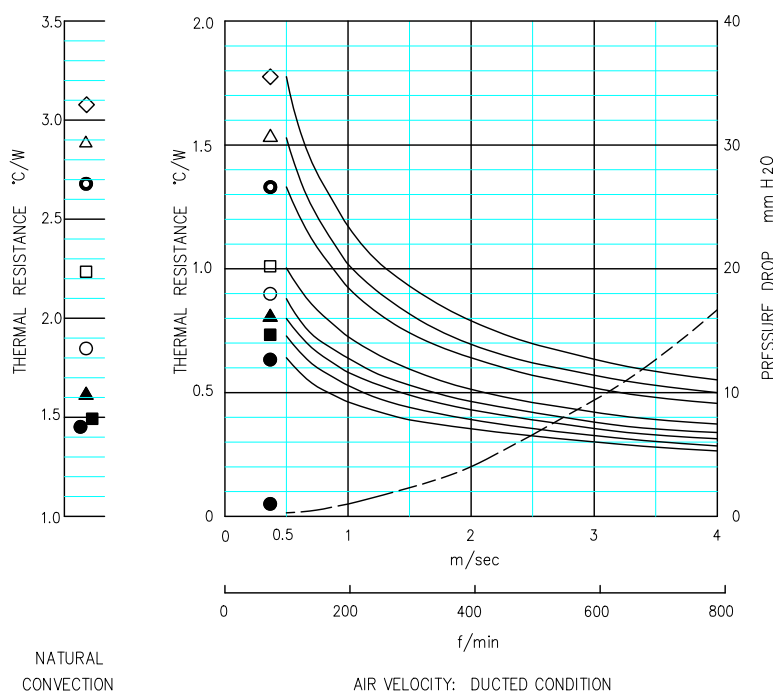
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
N100-10B	10	4.50	136.8
N100-12B	12	4.50	142.6
N100-15B	15	6.00	201.4
N100-20B	20	6.00	215.4
N100-25B	25	6.00	229.4
N100-30B	30	6.00	243.4
N100-35B	35	6.00	257.4
N100-40B	40	6.00	
N100-[h]B	[h] ≤ 12	4.50	-
	12 < [h] ≤ 40	6.00	-

DATA



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256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN
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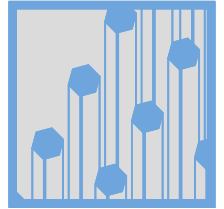
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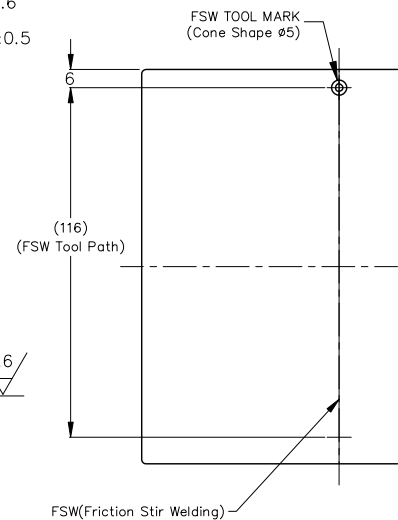
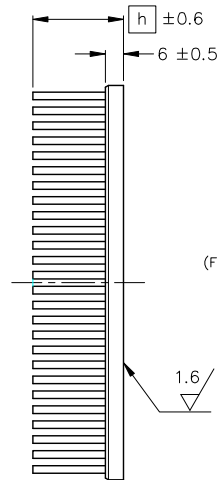
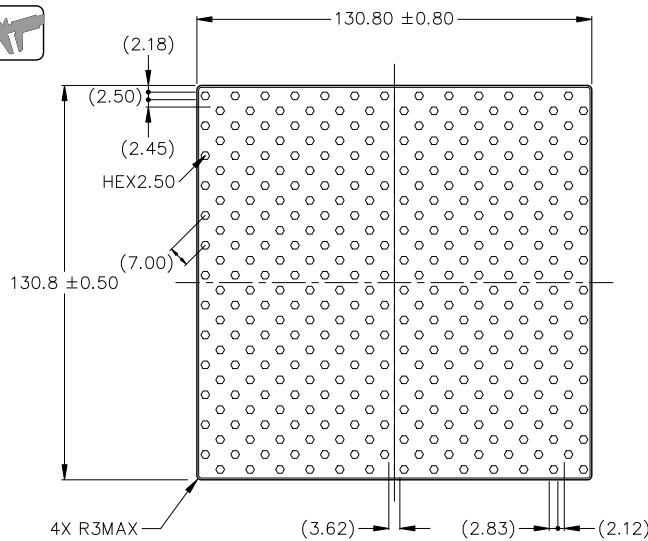
ALPHA

Natural Convection Heat Sink

N130



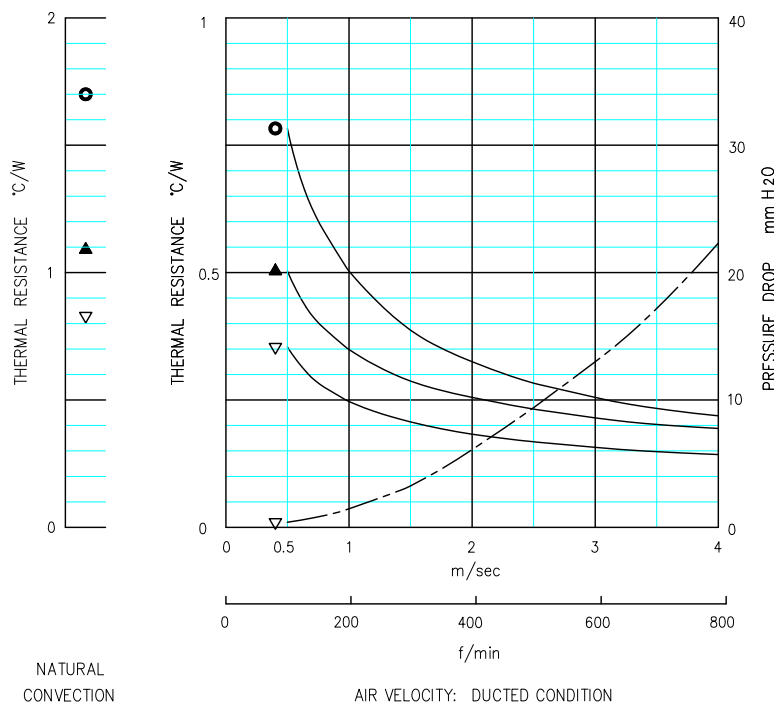
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	WEIGHT (grams)
N130-15B	15	320.9
N130-20B	20	345.6
N130-25B	25	370.2
N130-30B	30	394.9
N130-35B	35	419.5
N130-40B	40	444.2
N130-45B	45	468.8

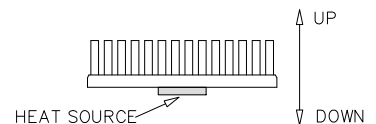
DATA



○ N130-15B
▲ N130-30B
▽ N130-45B

● DUCTED CONDITION
DUMMY HEATER SIZE: 70 SQ
THERMAL RESISTANCE _____
PRESSURE DROP _____

● NATURAL CONVECTION
DUMMY HEATER SIZE: 70 SQ
DISSIPATED POWER: 40 (W)



NOTE ORIENTATION OF HEAT SINK USED
FOR NATURAL CONVECTION TESTING

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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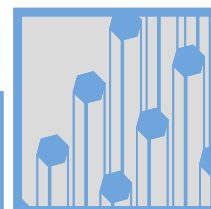
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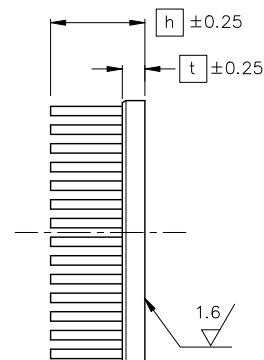
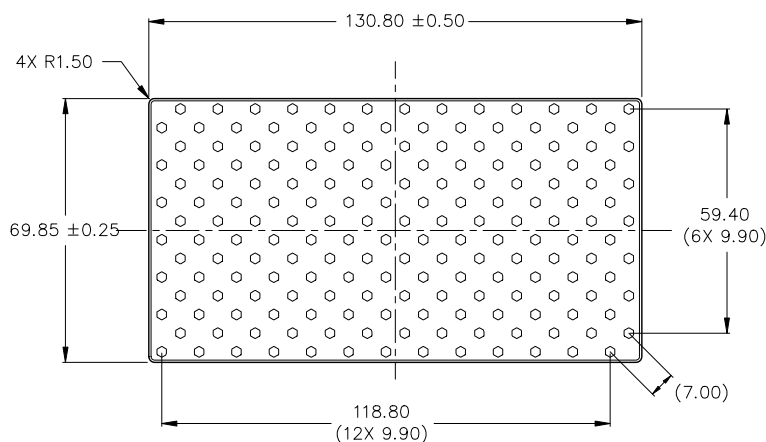
ALPHA

Natural Convection Heat Sink

N13070



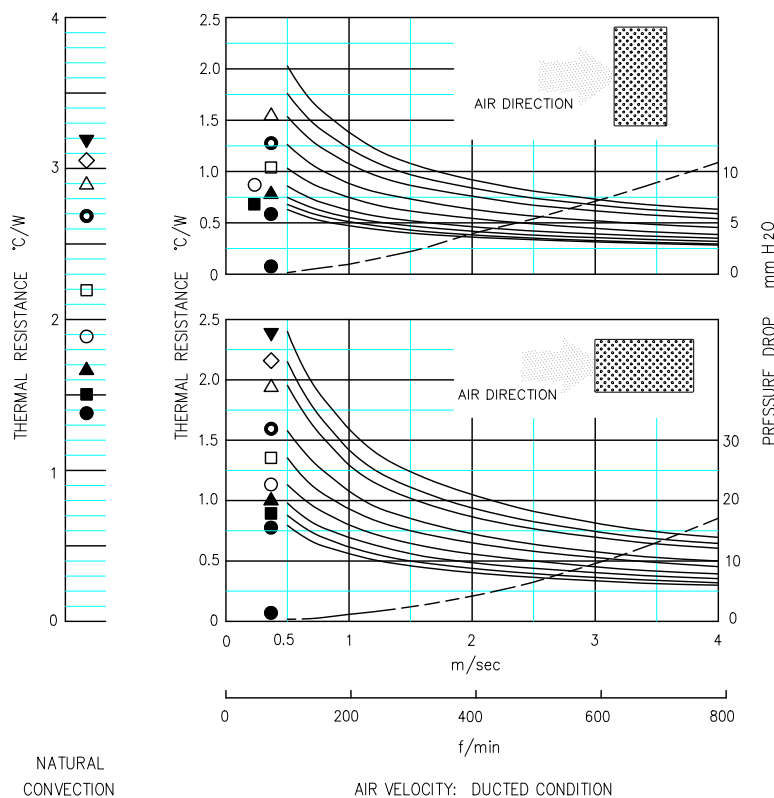
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

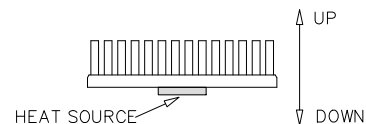
MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
N13070-8B	8	4.00	108.6
N13070-10B	10	4.00	113.9
N13070-12B	12	5.00	141.0
N13070-15B	15	5.00	170.7
N13070-20B	20	6.00	183.6
N13070-25B	25	6.00	196.5
N13070-30B	30	6.00	209.4
N13070-35B	35	6.00	222.3
N13070-40B	40	6.00	235.2
N13070-[h]B	[h] ≤ 10	4.00	-
	10 < [h] ≤ 12	5.00	-
	12 < [h] ≤ 40	6.00	-

DATA



- ▼ N13070-8B
- ◇ N13070-10B
- △ N13070-12B
- N13070-15B
- N13070-20B
- N13070-25B
- ▲ N13070-30B
- N13070-35B
- N13070-40B

- DUCTED CONDITION
DUMMY HEATER SIZE: 25.4 SQ
THERMAL RESISTANCE _____
PRESSURE DROP _____
- NATURAL CONVECTION
DUMMY HEATER SIZE: 25.4 SQ
DISSIPATED POWER: 31.5 (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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