

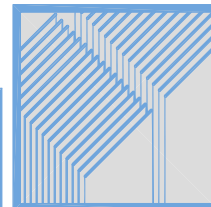
Z Series

Ultra – High Performance Heat Sink

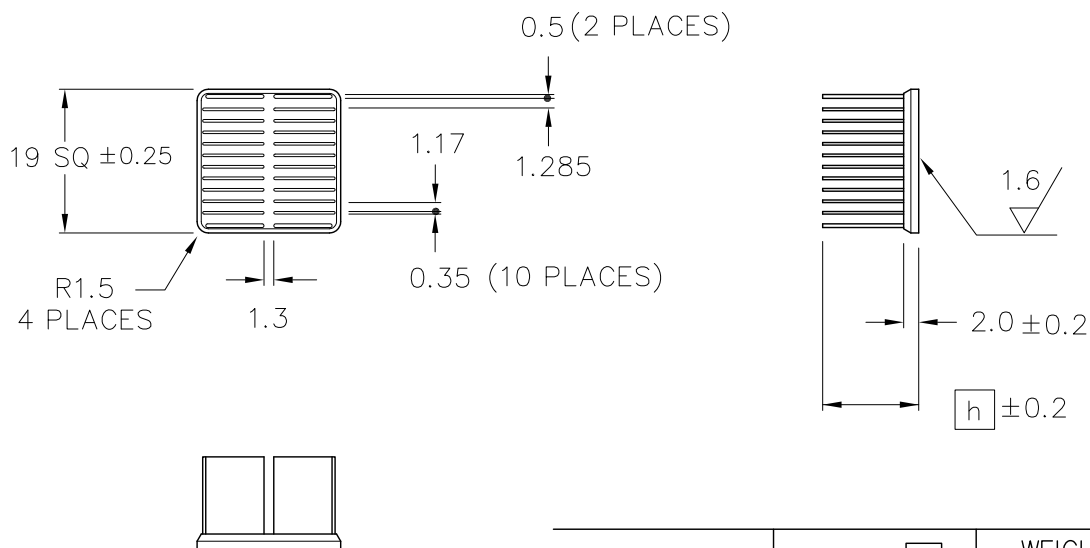
ALPHA

ALPHA

Ultra - High Performance Heat Sink

Z19

DIM

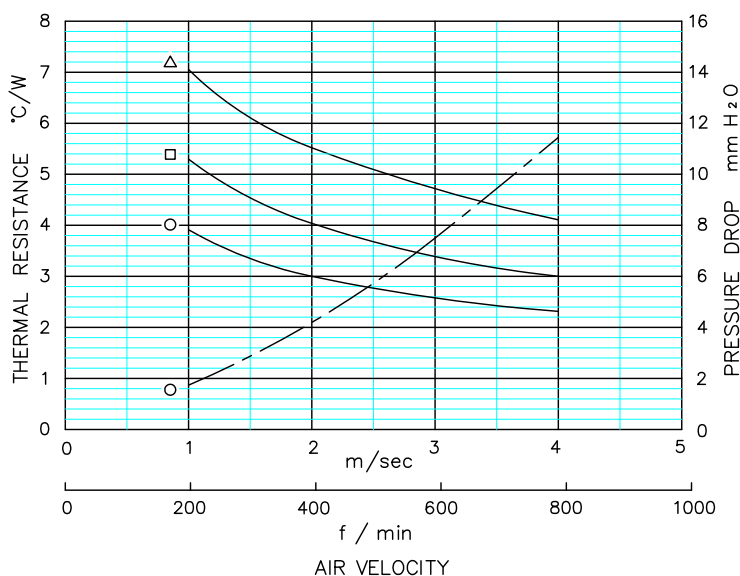


HEAT SINK
 MATERIAL : A 6063
 FINISH : BLACK ANODIZE

MODEL	HEIGHT h	WEIGHT (grams)
Z19-6.3B	6.3	2.6
Z19-9.5B	9.5	3.2
Z19-12.7B	12.7	3.8

Dimensions : mm

DATA



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

- △ Z19-6.3B
- Z19-9.5B
- Z19-12.7B

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

Alpha Company Ltd.

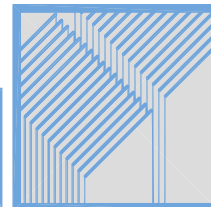
256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN
 PHONE +81(55)966 0789
 FAX +81(55)966 9192
 E mail : alpha@micforg.co.jp
 URL : <http://www.micforg.co.jp>

Alpha Novatech, Inc. - a subsidiary of Alpha Company.

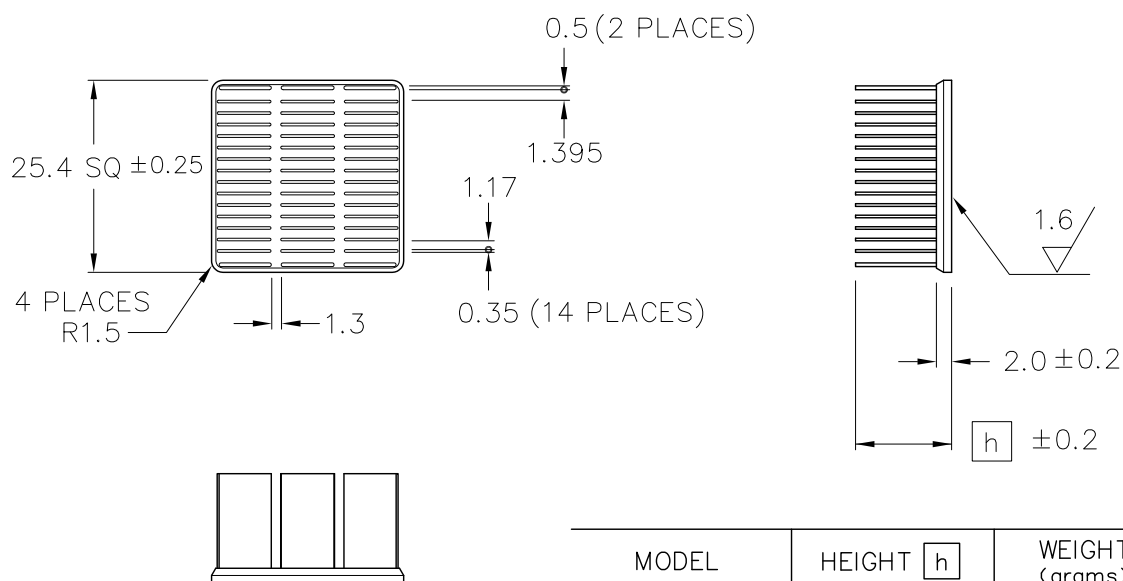
473 Sapena Ct. #12 Santa Clara, CA 95054 USA
 PHONE +1(408)567-8082
 FAX +1(408)567-8053
 E mail : sales@alphanovatech.com
 URL : <http://www.alphanovatech.com>

ALPHA

Ultra - High Performance Heat Sink

Z25

DIM

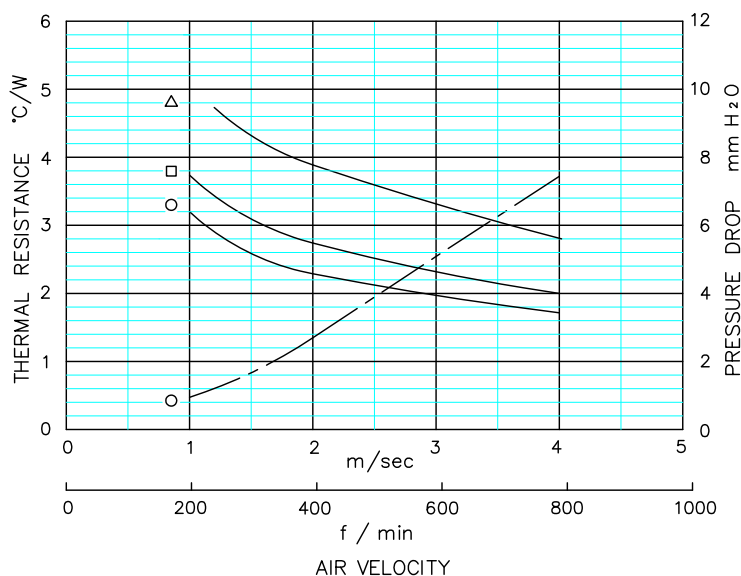


HEAT SINK
 MATERIAL : A 6063
 FINISH : BLACK ANODIZE

MODEL	HEIGHT [h]	WEIGHT (grams)
Z25-6.3B	6.3	5.0
Z25-9.5B	9.5	6.0
Z25-12.7B	12.7	7.0

Dimensions : mm

DATA



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

- △ Z25-6.3B
- Z25-9.5B
- Z25-12.7B

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

Alpha Company Ltd.

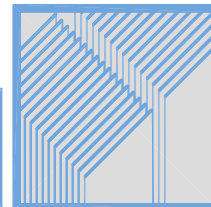
256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN
 PHONE +81(55)966 0789
 FAX +81(55)966 9192
 E mail : alpha@micforg.co.jp
 URL : <http://www.micforg.co.jp>

Alpha Novatech, Inc. - a subsidiary of Alpha Company.

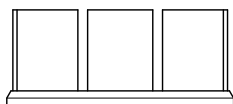
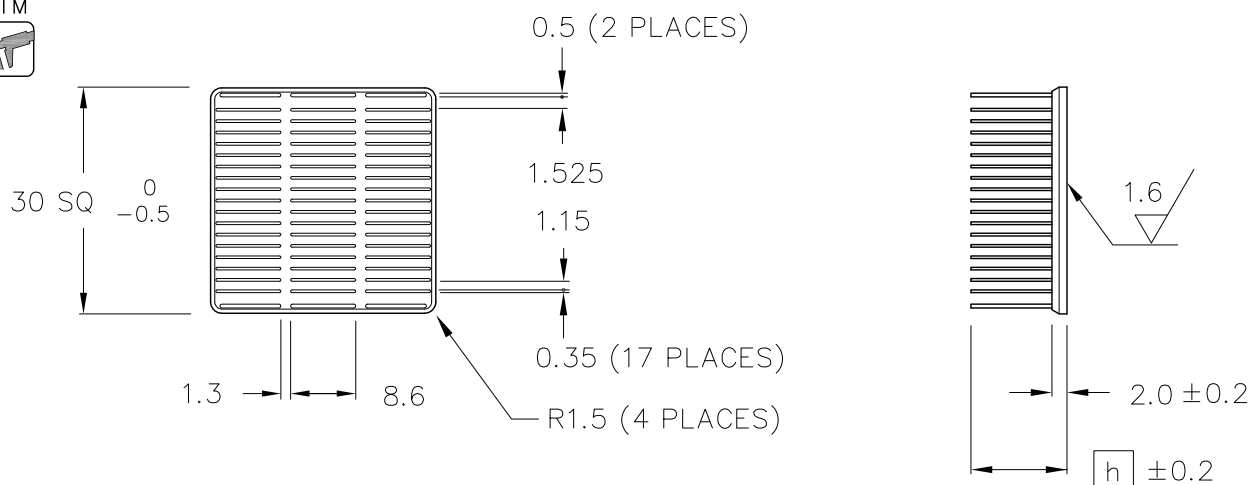
473 Sapena Ct. #12 Santa Clara, CA 95054 USA
 PHONE +1(408)567-8082
 FAX +1(408)567-8053
 E mail : sales@alphanovatech.com
 URL : <http://www.alphanovatech.com>

ALPHA

Ultra - High Performance Heat Sink

Z30

DIM



HEAT SINK

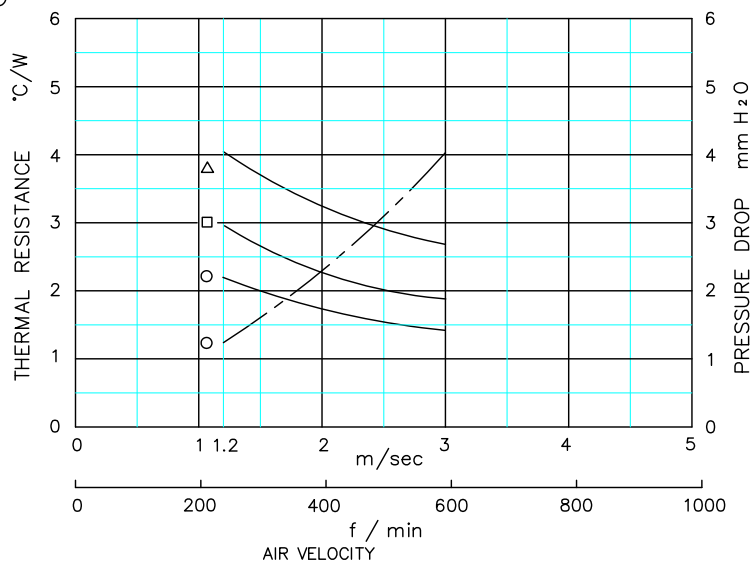
MATERIAL : A 6063

FINISH : BLACK ANODIZE

MODEL	HEIGHT h	WEIGHT (grams)
Z30-6.3B	6.3	7
Z30-9.5B	9.5	8.5
Z30-12.7B	12.7	10

Dimensions : mm

DATA



● Thermal Resistance (Ducted)

(Solid Line —)

● Pressure Drop

(Center Line - - -)

Δ Z30-6.3B

□ Z30-9.5B

○ Z30-12.7B

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

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>

Alpha Novatech, Inc. - a subsidiary of Alpha Company.

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

PHONE +1(408)567-8082

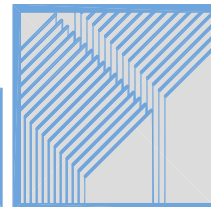
FAX +1(408)567-8053

E mail : sales@alphanovatech.com

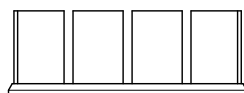
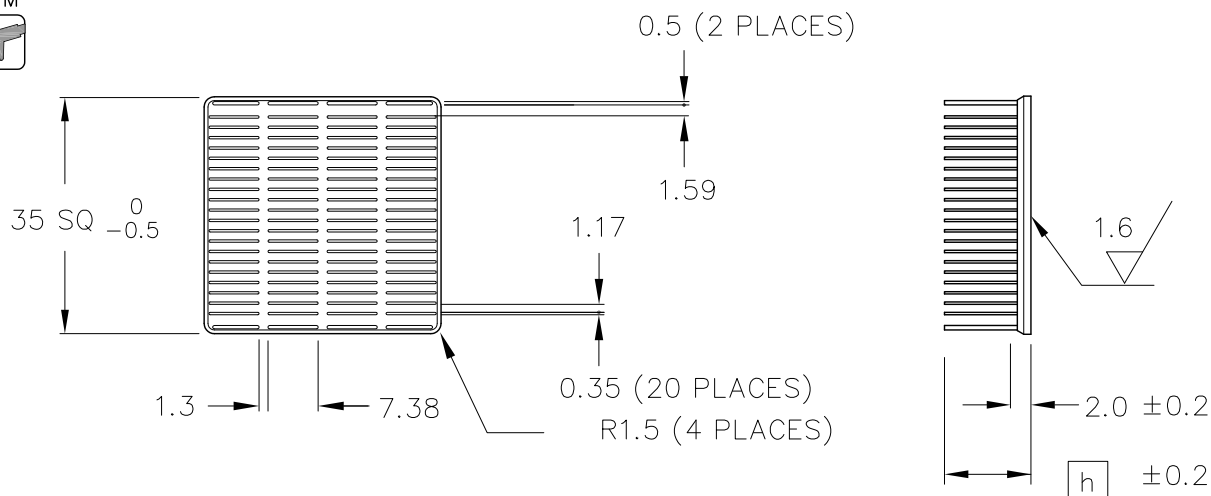
URL : <http://www.alphanovatech.com>

ALPHA

Ultra - High Performance Heat Sink

Z35

DIM

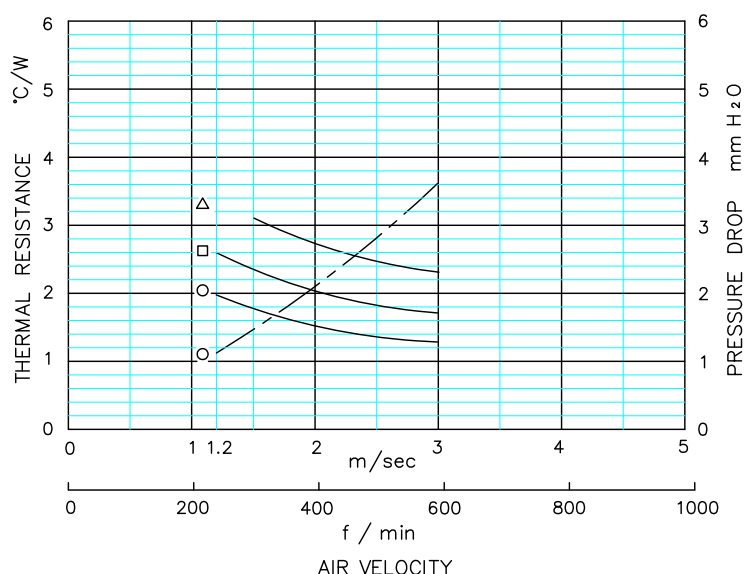


HEAT SINK
 MATERIAL : A 6063
 FINISH : BLACK ANODIZE

MODEL	HEIGHT h	WEIGHT (grams)
Z35-6.3B	6.3	9.5
Z35-9.5B	9.5	11.5
Z35-12.7B	12.7	13.5

Dimensions : mm

DATA



● Thermal Resistance (Ducted)

(Solid Line —)

● Pressure Drop

(Center Line - - -)

△ Z35-6.3B

□ Z35-9.5B

○ Z35-12.7B

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

Alpha Company Ltd.

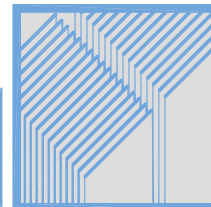
256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN
 PHONE +81(55)966 0789
 FAX +81(55)966 9192
 E mail : alpha@micforg.co.jp
 URL : <http://www.micforg.co.jp>

Alpha Novatech, Inc. - a subsidiary of Alpha Company.

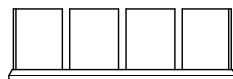
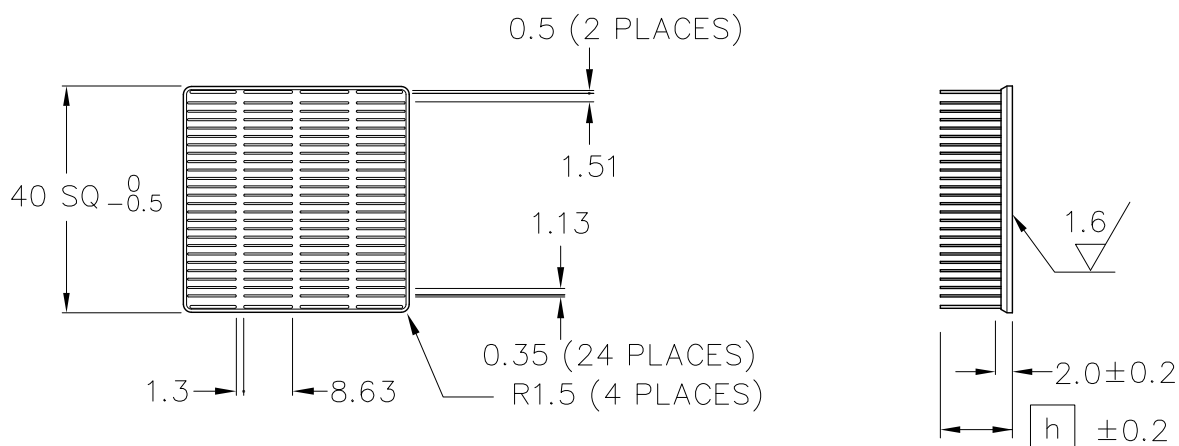
473 Sapena Ct. #12 Santa Clara, CA 95054 USA
 PHONE +1(408)567-8082
 FAX +1(408)567-8053
 E mail : sales@alphanovatech.com
 URL : <http://www.alphanovatech.com>

ALPHA

Ultra - High Performance Heat Sink

Z40

DIM

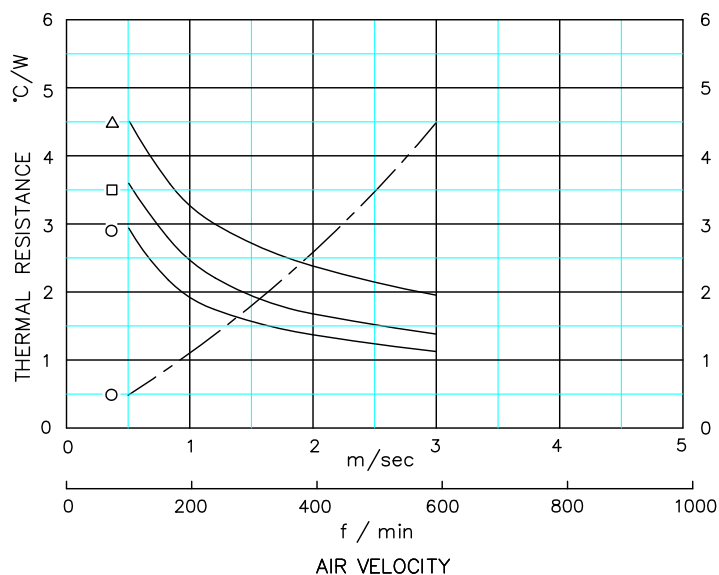


HEAT SINK
 MATERIAL : A 6063
 FINISH : BLACK ANODIZE

MODEL	HEIGHT h	WEIGHT (grams)
Z40-6.3B	6.3	12.5
Z40-9.5B	9.5	15.5
Z40-12.7B	12.7	18.5

Dimensions : mm

DATA



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

Alpha Company Ltd.

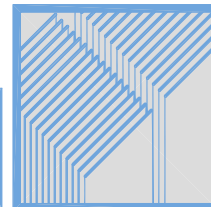
256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN
 PHONE +81(55)966 0789
 FAX +81(55)966 9192
 E mail : alpha@micforg.co.jp
 URL : <http://www.micforg.co.jp>

Alpha Novatech, Inc. - a subsidiary of Alpha Company.

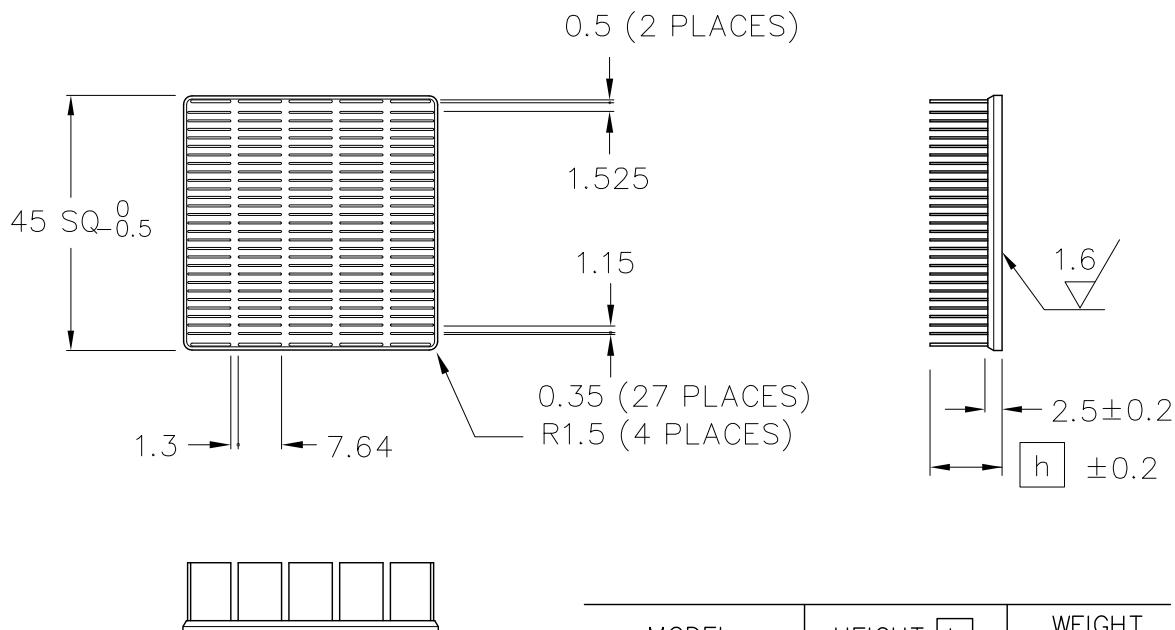
473 Sapena Ct. #12 Santa Clara, CA 95054 USA
 PHONE +1(408)567-8082
 FAX +1(408)567-8053
 E mail : sales@alphanovatech.com
 URL : <http://www.alphanovatech.com>

ALPHA

Ultra - High Performance Heat Sink

Z45

DIM



HEAT SINK

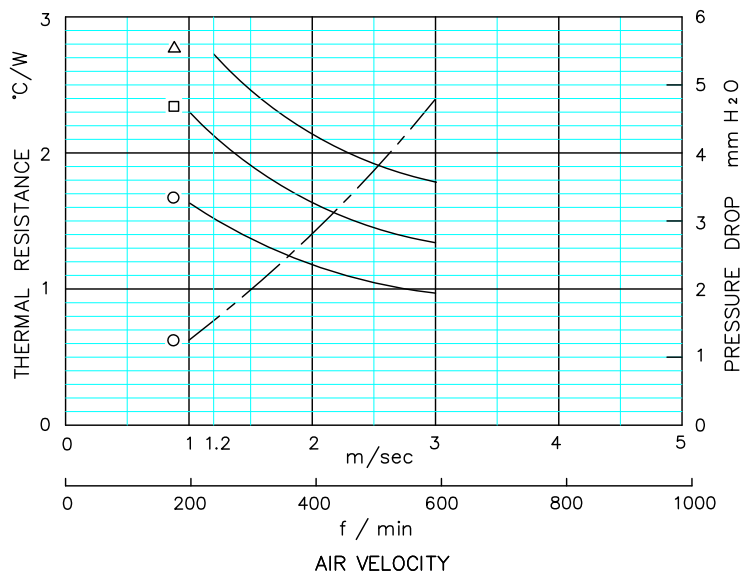
MATERIAL : A 6063

FINISH : BLACK ANODIZE

MODEL	HEIGHT [h]	WEIGHT (grams)
Z45-6.3B	6.3	17.5
Z45-9.5B	9.5	21.5
Z45-12.7B	12.7	25.5

Dimensions : mm

DATA



● Thermal Resistance (Ducted)

(Solid Line —)

● Pressure Drop

(Center Line - - -)

Δ Z45-6.3B

□ Z45-9.5B

○ Z45-12.7B

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

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>

Alpha Novatech, Inc. - a subsidiary of Alpha Company.

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

PHONE +1(408)567-8082

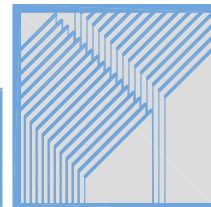
FAX +1(408)567-8053

E mail : sales@alphanovatech.com

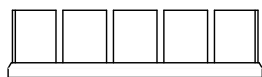
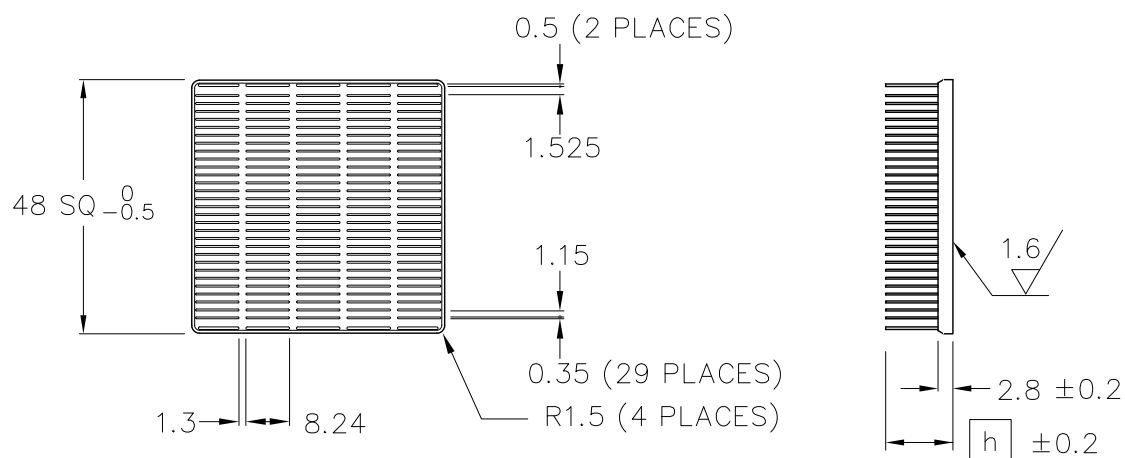
URL : <http://www.alphanovatech.com>

ALPHA

Ultra - High Performance Heat Sink

Z48

DIM



HEAT SINK

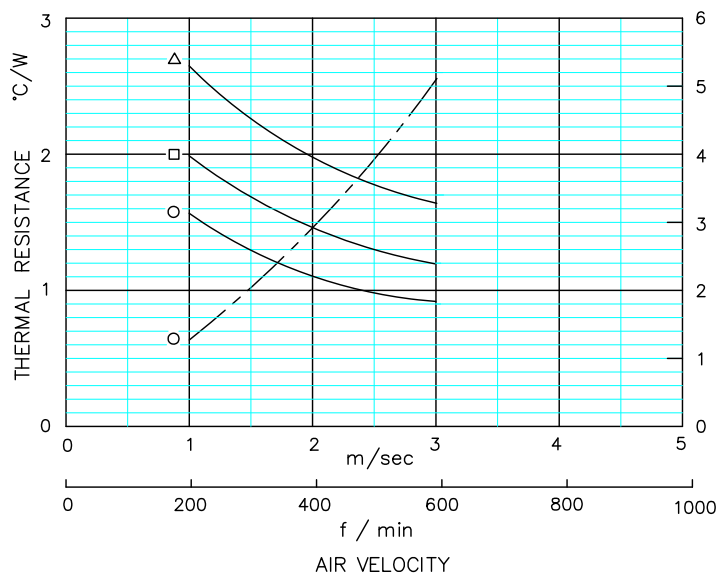
MATERIAL : A 6063

FINISH : BLACK ANODIZE

MODEL	HEIGHT [h]	WEIGHT (grams)
Z48-6.3B	6.3	21.5
Z48-9.5B	9.5	25.5
Z48-12.7B	12.7	29.5

Dimensions : mm

DATA



● Thermal Resistance (Ducted)

(Solid Line —)

● Pressure Drop

(Center Line - - -)

△ Z48-6.3B

□ Z48-9.5B

○ Z48-12.7B

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

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>

Alpha Novatech, Inc. - a subsidiary of Alpha Company.

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

PHONE +1(408)567-8082

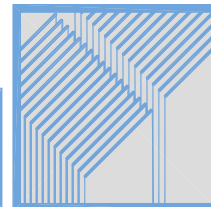
FAX +1(408)567-8053

E mail : sales@alphanovatech.com

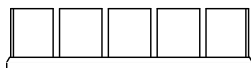
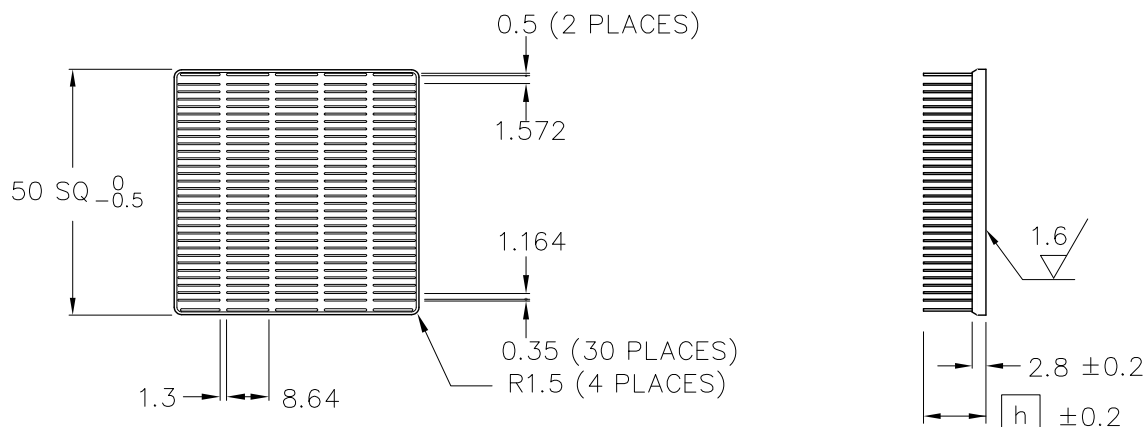
URL : <http://www.alphanovatech.com>

ALPHA

Ultra - High Performance Heat Sink

Z50

DIM

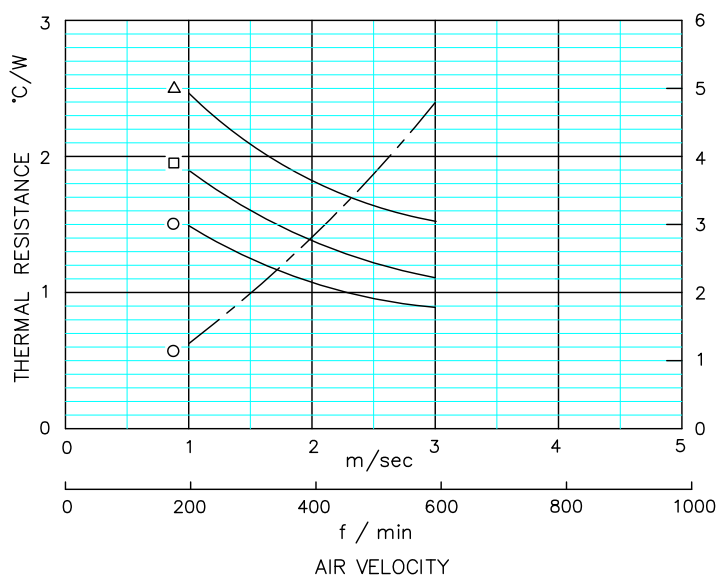


HEAT SINK
 MATERIAL : A 6063
 FINISH : BLACK ANODIZE

MODEL	HEIGHT [h]	WEIGHT (grams)
Z50-6.3B	6.3	22.5
Z50-9.5B	9.5	27.0
Z50-12.7B	12.7	31.5

Dimensions : mm

DATA



- Thermal Resistance (Ducted)
(Solid Line)
- Pressure Drop
(Center Line)
- △ Z50-6.3B
- Z50-9.5B
- Z50-12.7B
- Based on Alpha's Standard Test Procedure. (Refer to page marked Technical Information.)
Dummy Heater Size : □ 12.7(mm)

Alpha Company Ltd.

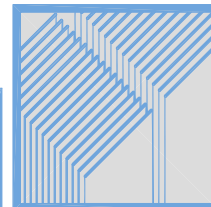
256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN
 PHONE +81(55)966 0789
 FAX +81(55)966 9192
 E mail : alpha@micforg.co.jp
 URL : <http://www.micforg.co.jp>

Alpha Novatech, Inc. - a subsidiary of Alpha Company.

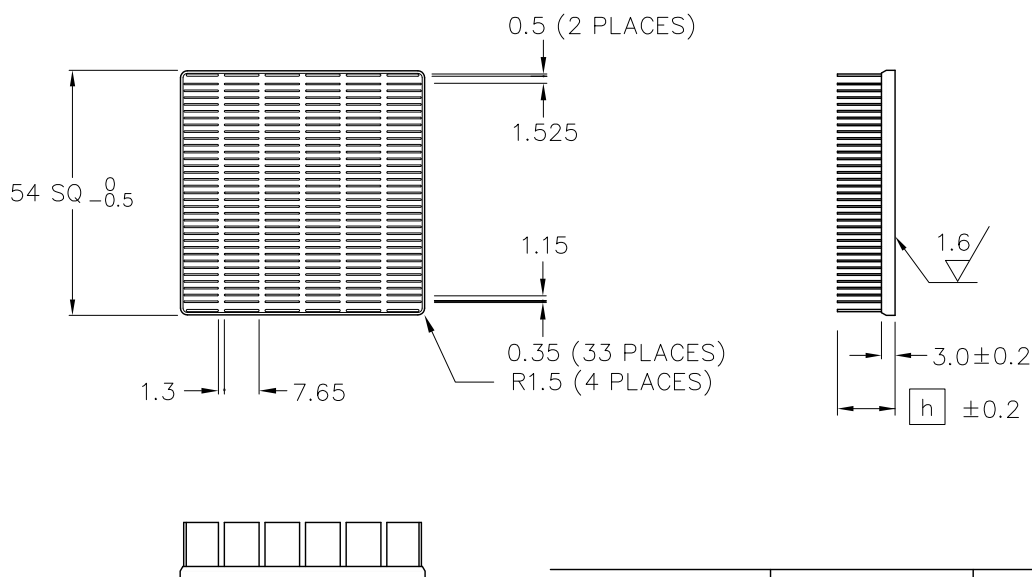
473 Sapena Ct. #12 Santa Clara, CA 95054 USA
 PHONE +1(408)567-8082
 FAX +1(408)567-8053
 E mail : sales@alphanovatech.com
 URL : <http://www.alphanovatech.com>

ALPHA

Ultra - High Performance Heat Sink

Z54

DIM



HEAT SINK

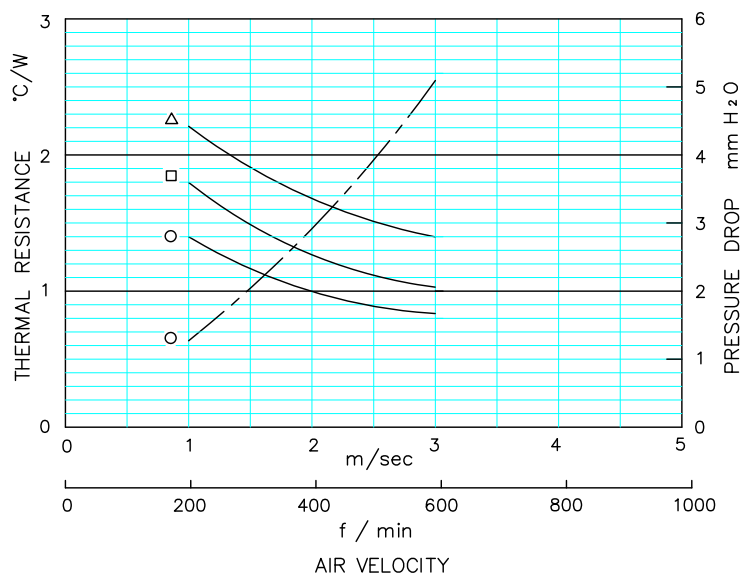
MATERIAL : A 6063

FINISH : BLACK ANODIZE

MODEL	HEIGHT h	WEIGHT (grams)
Z54-6.3B	6.3	28
Z54-9.5B	9.5	33
Z54-12.7B	12.7	38

Dimensions : mm

DATA



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

- △ Z54-6.3B
- Z54-9.5B
- Z54-12.7B

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

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>

Alpha Novatech, Inc. - a subsidiary of Alpha Company.

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

PHONE +1(408)567-8082

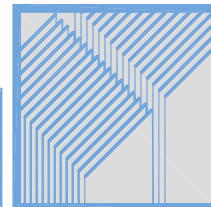
FAX +1(408)567-8053

E mail : sales@alphanovatech.com

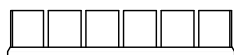
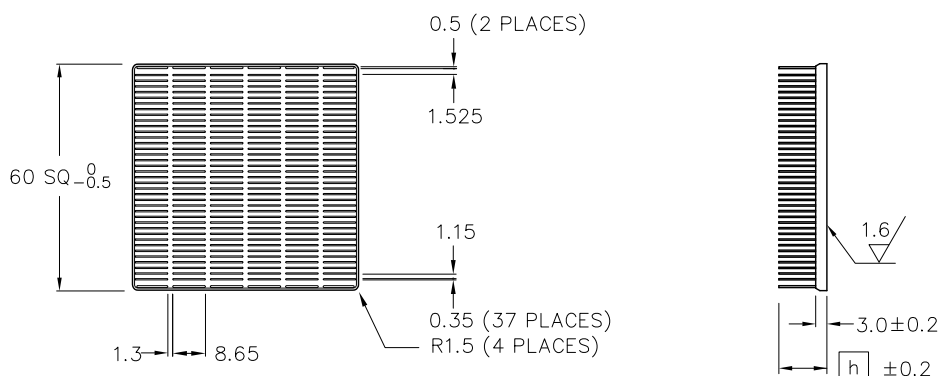
URL : <http://www.alphanovatech.com>

ALPHA

Ultra - High Performance Heat Sink

Z60

DIM



HEAT SINK

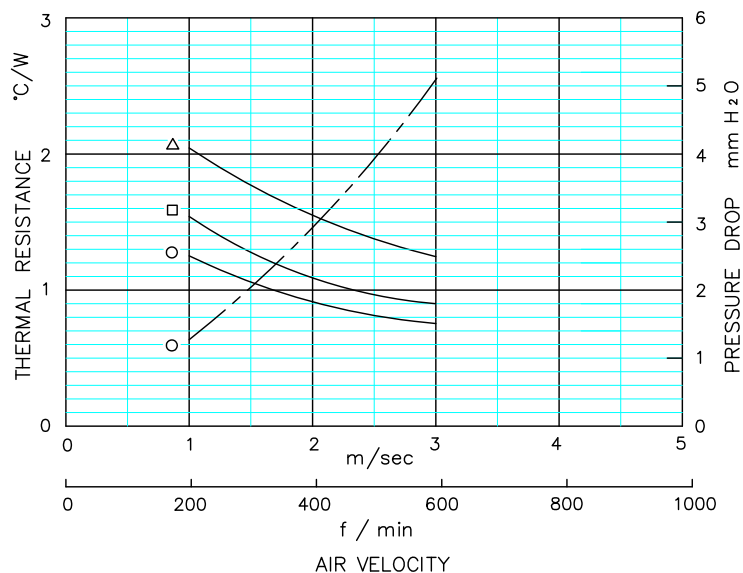
MATERIAL : A 6063

FINISH : BLACK ANODIZE

MODEL	HEIGHT h	WEIGHT (grams)
Z60-6.3B	6.3	35.5
Z60-9.5B	9.5	41.5
Z60-12.7B	12.7	47.5

Dimensions : mm

DATA



● Thermal Resistance (Ducted)

(Solid Line —)

● Pressure Drop

(Center Line - - -)

Δ Z60-6.3B

□ Z60-9.5B

○ Z60-12.7B

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

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>

Alpha Novatech, Inc. - a subsidiary of Alpha Company.

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

PHONE +1(408)567-8082

FAX +1(408)567-8053

E mail : sales@alphanovatech.com

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