

LPDM_S Series LPDH_S Series

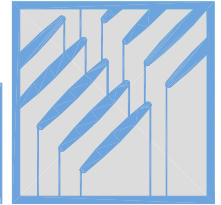
Low Pressure Drop Heat Sink
with Attachment Holes

ALPHA

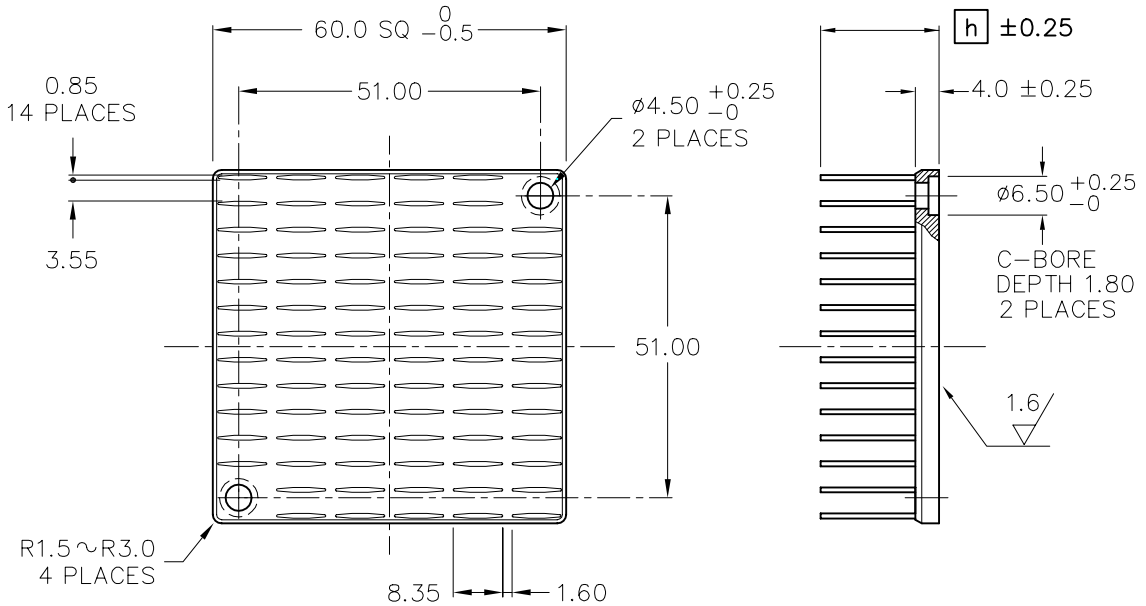
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDM60S



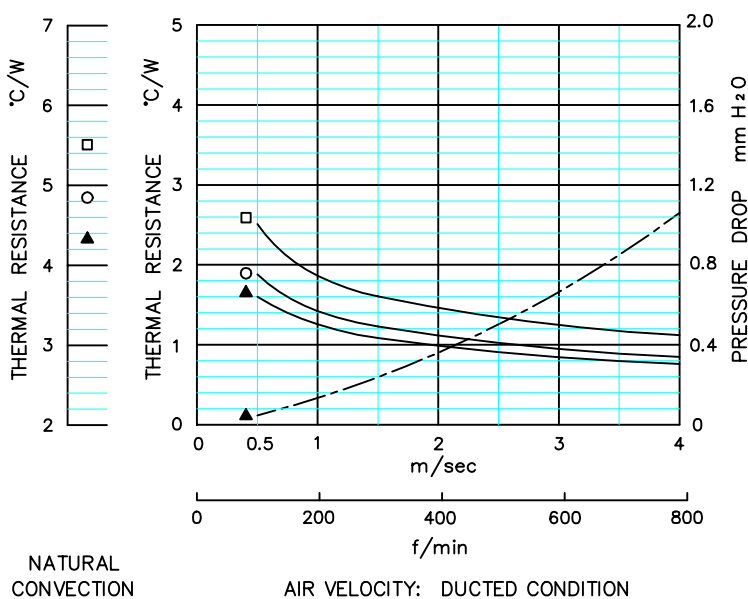
DIM



MODEL	HEIGHT [h]	WEIGHT (grams)
LPDM60S-15B	15	50.4
LPDM60S-20B	20	55.9
LPDM60S-25B	25	61.4

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



Alpha Company Ltd.

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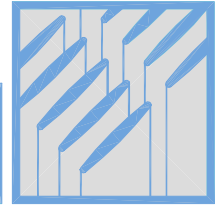
Alpha Novatech, Inc. - a subsidiary of Alpha Company.

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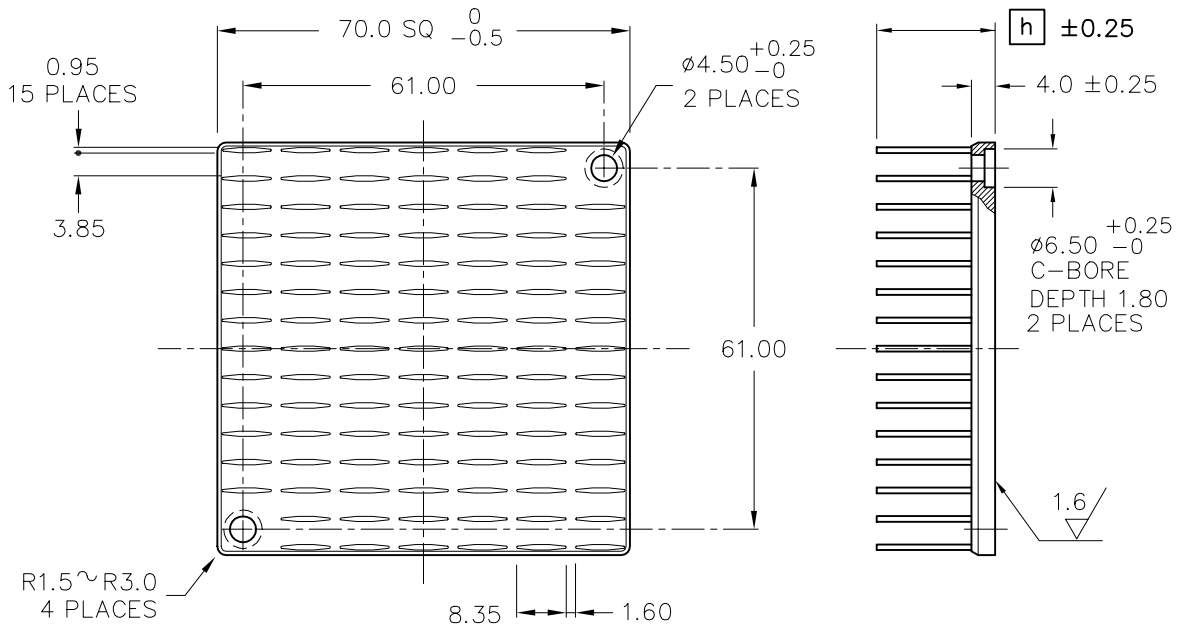
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDM70S



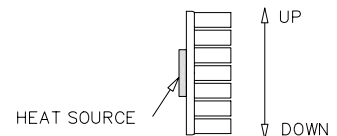
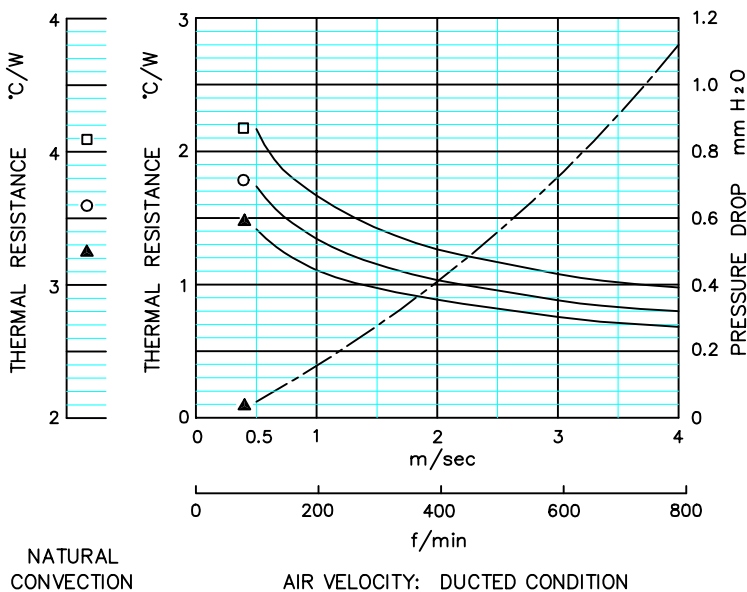
DIM



MODEL	HEIGHT [h]	WEIGHT (grams)
LPDM70S-15B	15	70.7
LPDM70S-20B	20	78.6
LPDM70S-25B	25	86.6

MATERIAL : A 6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

DATA



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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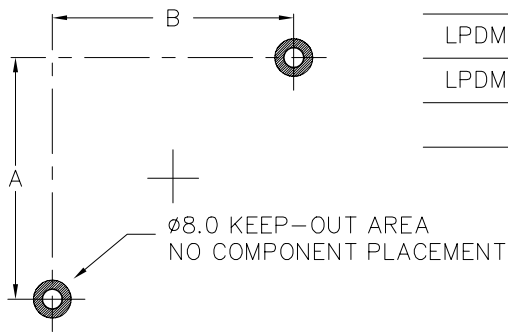
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REF



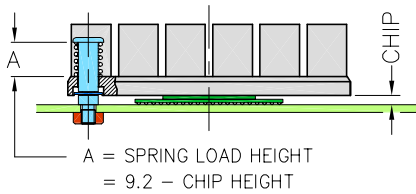
● BOARD KEEPOUT PATTERNS



LPDM60S AND UBM60S	51.0	51.0
LPDM70S AND UBM70S	61.0	61.0
MODEL	A	B

● INSTALLATION

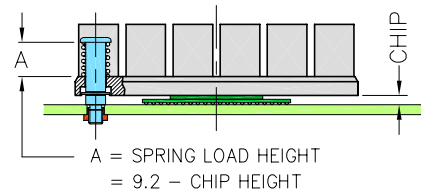
USE HEX NUTS M3x0.5



A = SPRING LOAD HEIGHT
= 9.2 - CHIP HEIGHT

REQUIRES ø3.2 THRU HOLES IN BOARD.
RECOMMENDED P.C.B THICKNESS 1.6mm.
MINIMUM CHIP HEIGHT 1.5mm.

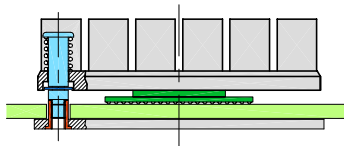
USE MAC8 TH-1.6-XX-M3



A = SPRING LOAD HEIGHT
= 9.2 - CHIP HEIGHT

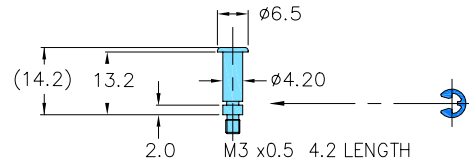
REQUIRES ø3.7 THRU HOLES IN BOARD.
MAC8 THREAD INSERT NEED THE SOLDERING.
RECOMMENDED P.C.B THICKNESS
MINIMUM 1.6mm ~ MAXIMUM 3.7mm
MINIMUM CHIP HEIGHT 1.5mm.

USE CUSTOM BACKING-PLATE



CUSTOM DESIGN FOR ANY P.C.B THICKNESS.

SHOULDER-SCREW/RETAINING RING E-2.5



REFER TO THE DRAWING FOR DETAIL SPECIFICATION.

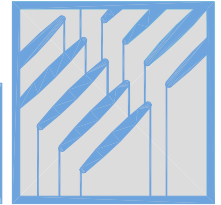
● FORCE



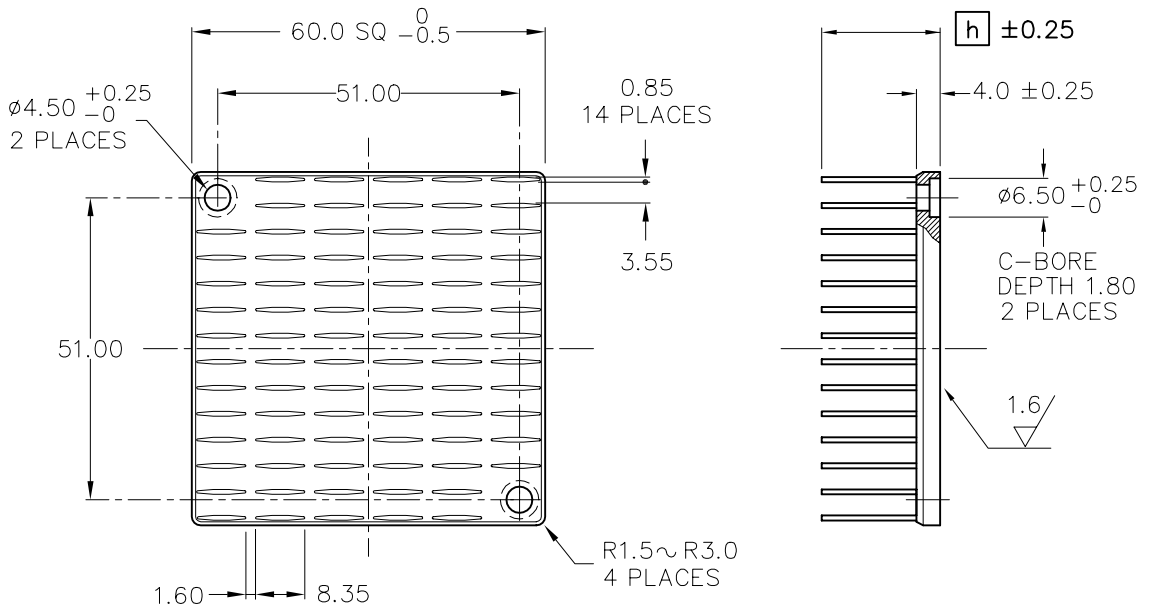
ALPHA

Low Pressure Drop Heat Sink
with attachment holes

LPDH60S



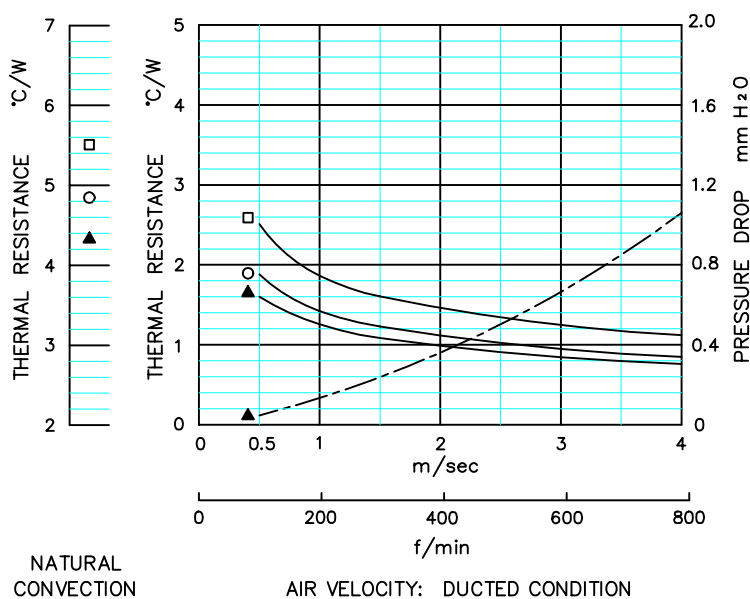
DIM



MODEL	HEIGHT [h]	WEIGHT (grams)
LPDH60S-15B	15	50.4
LPDH60S-20B	20	55.9
LPDH60S-25B	25	61.4

MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

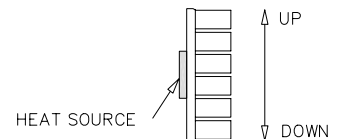
DATA



- LPDH60S-15B
- LPDH60S-20B
- ▲ LPDH60S-25B

● 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)



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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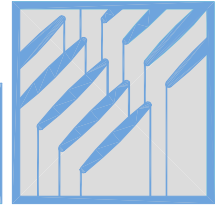
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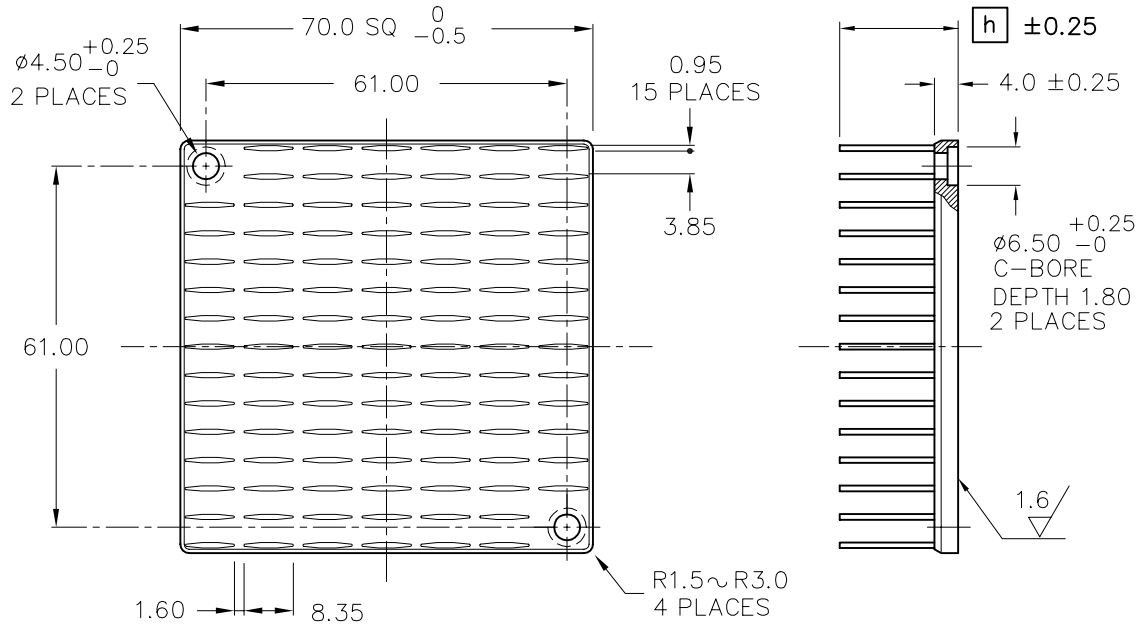
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LPDH70S



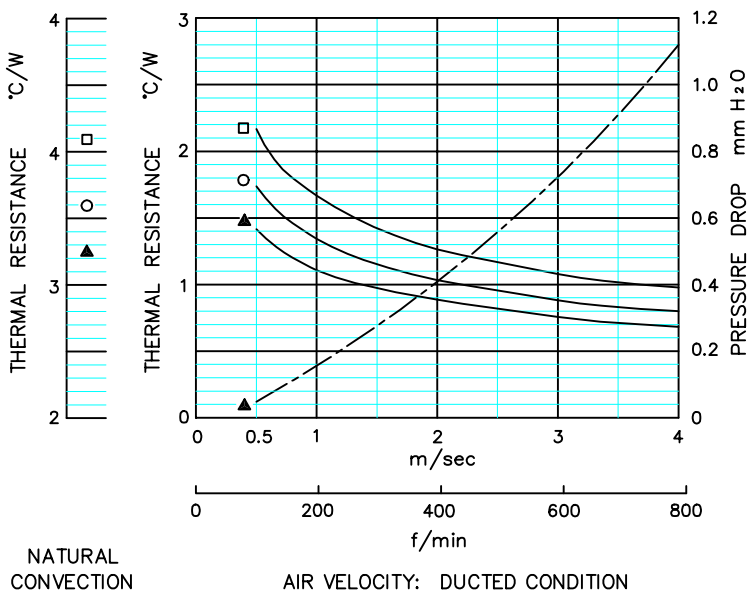
DIM



MODEL	HEIGHT [h]	WEIGHT (grams)
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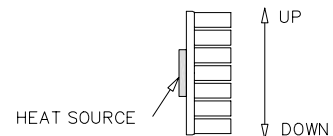
MATERIAL : A 6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

DATA



- LPDH70S-15B
- LPDH70S-20B
- ▲ LPDH70S-25B

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



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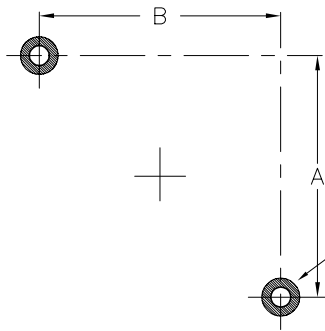
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REF



● BOARD KEEPOUT PATTERNS

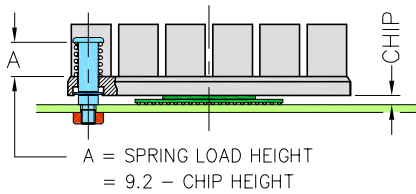


LPDH60S AND UBH60S	51.0	51.0
LPDH70S AND UBH70S	61.0	61.0
MODEL	A	B

φ8.0 KEEP-OUT AREA
NO COMPONENT PLACEMENT

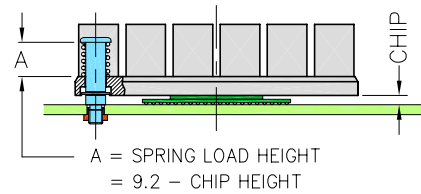
● INSTALLATION

USE HEX NUTS M3x0.5



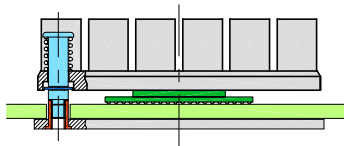
REQUIRES φ3.2 THRU HOLES IN BOARD.
RECOMMENDED P.C.B THICKNESS 1.6mm.
MINIMUM CHIP HEIGHT 1.5mm.

USE MAC8 TH-1.6-XX-M3



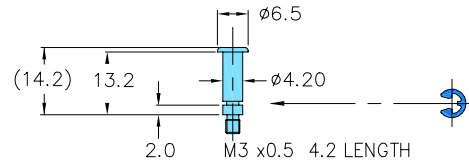
REQUIRES φ3.7 THRU HOLES IN BOARD.
MAC8 THREAD INSERT NEED THE SOLDERING.
RECOMMENDED P.C.B THICKNESS
MINIMUM 1.6mm ~ MAXIMUM 3.7mm
MINIMUM CHIP HEIGHT 1.5mm.

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● FORCE

