







# Heat Insulating Plates

## High Temperature Insulating Grade

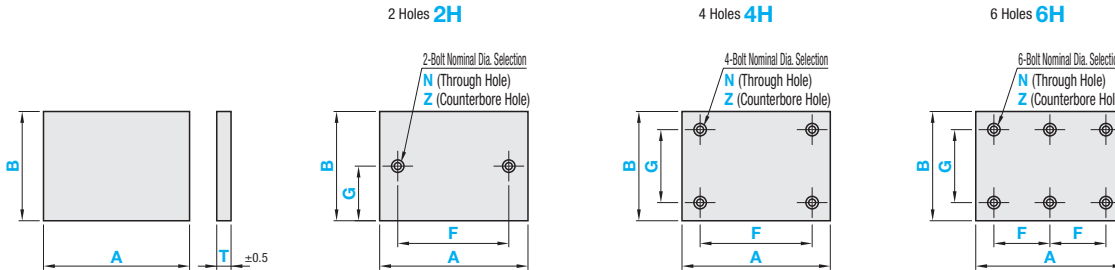


Type	Tolerance Selection	Dim. Tolerance of A and B	Color	Operating Ambient Temperature
HRMB	Not Specified	+1.0 0	White	Room Temp. ~ 1000°C
	P	±0.3		

RoHS Properties and Machining Conditions P:1675

### Standard

### With Holes



A>B

### Standard

Part Number	1mm Increment	Selection		
			Type	Tolerance Selection
HRMB	Not Specified	20~800 20~600	12.7	
			19.1	
	P	25.4		

#### Hole Machining Detail

N (Through Hole) Z (Counterbore Hole)

Bolt Nominal Dia.	3	4	5	6	8	10
d	3.5	4.5	5.5	6.5	9	11
d1	-	8	9.5	11	14	-
h	-	5	6	7	9	-

### With Holes

Type	Part Number	Tolerance Selection	Number of Holes	1mm Increment		Selection T	0.5mm Increment		Bolt Hole Nominal Dia. Selection				
				A	B		F	G	Through Hole N	Counterbore Hole Z			
HRMB	Not Specified		2H 4H 6H	20~800	20~600	12.7	9~791 (2H, 4H Type)	5~595 (2H)	3 4 5 6 8 10	4 5 6			
						19.1				4 5 6 8			
						25.4				4 5 6 8			
						P	20~200	20~200		12.7	9~191 (2H, 4H Type)	5~195 (2H)	4 5 6
										19.1			4 5 6 8
										25.4			4 5 6 8

F Dimension Range: For 2H and 4H,  $d(d_1)+5 \leq F \leq A-d(d_1)-5$ ; for 6H,  $d(d_1)+5 \leq F \leq A/2-d(d_1)/2-2.5$ .  
 G Dimension Range: For 2H,  $d(d_1)/2+2.5 \leq G \leq B-d(d_1)/2-2.5$ ; for 4H and 6H,  $d(d_1)+5 \leq G \leq B-d(d_1)-5$ .  
 (d is for Through Hole, d1 is for Counterbore.)  
 For Hole type, select from N (through hole), Z (Counterbore).



Ordering Example

### Standard

Part Number - A - B - T

HRMB - 300 - 222 - 12.7  
 HRMBP - 200 - 100 - 19.1

### With Holes

Part Number - A - B - T - F - G - Bolt Nominal Dia.

HRMB2H - 200 - 170 - 12.7 - F100 - G70 - N8  
 HRMBP4H - 200 - 150 - 12.7 - F150 - G120 - Z5

### Standard Type Unit Price (HRMB) Same price for HRMBP.

Part Number	T	A	Unit Price HRMB, HRMBP Qty. 1 ~ 50																
			20 / 50	51 / 100	101 / 150	151 / 200	201 / 250	251 / 300	301 / 350	351 / 400	401 / 450	451 / 500	501 / 550	551 / 600					
HRMB	12.7	20~50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		51~100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		101~150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		151~200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		201~250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		251~300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		301~350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		351~400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		401~450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		451~500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		501~550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		551~600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		601~650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		651~700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		701~750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		751~800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		HRMBP	19.1	20~50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				51~100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
101~150	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
151~200	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
201~250	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
251~300	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
301~350	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
351~400	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
401~450	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
451~500	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
501~550	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
551~600	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
601~650	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
651~700	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
701~750	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
751~800	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HRMB	25.4			20~50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				51~100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		101~150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		151~200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		201~250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		251~300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		301~350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		351~400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		401~450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		451~500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		501~550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		551~600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		601~650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		651~700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		701~750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		751~800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

### Hole Machining Charge

With Holes	Unit Price	
	Bolt Nominal	
2H	N (Through Hole)	Z (Counterbore Hole)
4H		
6H		

The price of Hole Type is Standard Type Unit Price plus Hole Machining Charge.

(Ex.) Part Number - A - B - T - F - G - Bolt Nominal Dia.  
 HRMB4H - 300 - 200 - 12.7 - F240 - G160 - Z6

(Standard Type Unit Price) + (Hole Machining Charge) = Hole Machined Type Unit Price



Alterations

Part Number - A - B - T - F - G - Bolt Nominal Dia. - (XC, YC)

HRMBP4H - 100 - 100 - 19.1 - F40 - G50 - N6 - XC30-YC20

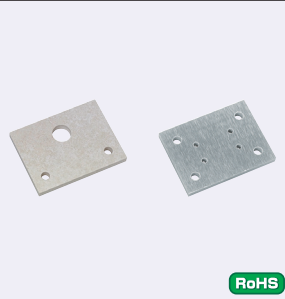
Alterations	Hole Position from Left	Hole Position from Bottom
	Code	XC
Spec.	XC=1 mm Increment 5≤XC≤786 (2H, 4H Type) $d(d_1)/2+2.5 \leq XC \leq A-F-d(d_1)/2-2.5$ (6H Type) $d(d_1)/2+2.5 \leq XC \leq A-2F-d(d_1)/2-2.5$	YC=1mm Increment 5≤YC≤586 $d(d_1)/2+2.5 \leq YC \leq B-G-d(d_1)/2-2.5$ Not applicable to 2H Type.





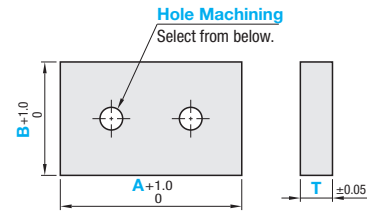


# Machined Resin Plates



Type	Grade	Color	Operating Ambient Temperature	Dimension Tolerance of A and B	T Dimension Tolerance
KJLHP	Standard	White Gray	Room Temp. ~ 220°C	+1.0 0	±0.05
KJLHH	Heat Resistant	Gray	Room Temp. ~ 500°C	±0.05	±0.05
KJLHL	High Temp. Resistant	White	Room Temp. ~ 400°C	±0.05	±0.05

Material and Characteristic Value See P.1675  
 Ⓜ A ≥ B



Hole Machining  
 Select from below.

## Hole Machining Selection

**S**

Hole Selectable ①  
 N (Through Hole)  
 Z (Counterbore Hole)  
 D (Through Hole)

**K**

2-Hole Selectable ②  
 NA (Through Hole)  
 ZF (Counterbore Hole)  
 DA (Through Hole)

2-Hole Selectable ①  
 N (Through Hole)  
 Z (Counterbore Hole)

**H**

Hole Selectable ②  
 NA (Through Hole)  
 DA (Through Hole)

6-Hole Selectable ①  
 N (Through Hole)  
 Z (Counterbore Hole)

**B**

Hole Selectable ①  
 N (Through Hole)  
 Z (Counterbore Hole)

Hole Selectable ②  
 NA (Through Hole)  
 ZF (Counterbore Hole)  
 DA (Through Hole)

**V**

4-Hole Selectable ①  
 N (Through Hole)  
 Z (Counterbore Hole)

Hole Selectable ②  
 NA (Through Hole)  
 DA (Through Hole)

**C**

4-Hole Selectable ①  
 N (Through Hole)  
 Z (Counterbore Hole)

Hole Selectable ②  
 NA (Through Hole)  
 ZF (Counterbore Hole)  
 DA (Through Hole)

## Hole Selection

Hole Type	Through Hole	Counterbore Hole	Through Hole
Code	N, NA	Z, ZF	D, DA
Shape			
Machining Specifications	Dimension: 3 4 5 6 8 10 Nominal Dia. d: 3.5 4.5 5.5 6.5 9 11	Boat Nominal Dia. d: 4 5 6 8 d1: 4.5 5.5 6.5 9 h: 5 6 7 9	3~30

Type	Part Number		A 1mm Increment	B 1mm Increment	X	Y	F	G	V	Q	S	W	Hole Selectable ① Nominal Dia.			Hole Selectable ② Nominal Dia.		
	Hole Machining Selection	T Selection											N Selection	Z Selection	D 0.5mm Increment	NA Selection	ZF Selection	DA 0.5mm Increment
KJLHP KJLHH KJLHL	S	3	20~300	20~200	1mm Increment	3	4	5	6	8	10	3	4	5	6	8	10	3~30
	B	5																
	V	10																
	J	15																
	C	15																



Ordering Example  
 Part Number - A - B - X - Y - F - G - V - Q - S - W - Hole Selectable ① Code, Nominal - Hole Selectable ② Code, Nominal  
 Type Hole Machining T  
 KJLHP V 10 - A140 - B80 - X15 - Y10 - F110 - G60 - V70 - S40 - Z6 - DA24

## Hole Machining Charge

Hole Machining Type	S	B	J	K	V	H	C
Additional Price							

The price is the main body price plus the hole machining charge.

## Body Price

Type	A	B	Unit Price Qty. 1 ~ 20																				
			20~50				51~100				101~150				151~200				201~250				251~300
KJLHP	3	5	20	20	51	20	51	101	20	51	101	151	20	51	101	151	20	51	101	151			
	5	10	50	50	100	50	100	150	50	100	150	200	50	100	150	200	50	100	150	200			
	10	15																					
	15																						
KJLHH	3	5																					
	10	15																					
	15																						
KJLHL	3	5																					
	10	15																					
	15																						



Alterations Part Number - A - B - X - Y - F - G - V - Q - S - W - Hole Selectable ① Code, Nominal - Hole Selectable ② Code, Nominal  
 Type Hole Machining T  
 KJLHP V 10 - A140 - B80 - X15 - Y10 - F110 - G60 - V70 - S40 - Z6 - DAC24

Alterations	Code	Spec.
D Hole Dia. 	DC DAC	Changes the diameter of D hole. DC, DAC=1 mm Increment [Ordering Code] Specify dimension D(DA) as DC(DAC). (Ex.) D=40...DC40 Ⓜ 31 ≤ DC ≤ 80 31 ≤ DAC ≤ 80

## Machining Dimension Tolerance

Type	Dimension Tolerance of A and B	T Dimension Tolerance
KJLHP	+1.0 0	±0.05
KJLHH		
KJLHL		

## Machining Limit

Through Hole Diameter (Counterbore Hole Diameter)	b (Minimum Value)
3~10	2.5