Configurable Plates - Copper / Brass

Tough Pitch Copper / Oxygen Free Copper / Chrome Copper / Brass Plates

■Features of Tough Pitch Coppers
The most widely used copper, and excellent in electrical and thermal conductivity.

■Features of Oxygen Free Copper
Highest purity copper commercially available. The oxygen free nature prevents hydrogen embrittlement.

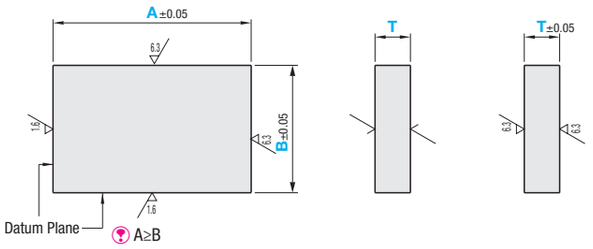
■Features of Chrome Copper
Excellent in mechanical strength and abrasion resistance at high temperature.

■Features of Brass Plates
Excellent in strength and ductile.

RoHS 10

Part Number	Material
CTAP□	Tough Pitch Copper JIS H3100 C1100P-1/4
CJAP□	Oxygen Free Copper JIS H3100 C1020P-1/2
CCSP□	Chrome Copper JIS Z3234 Class 2
C28P□	Brass Plate JIS H3100 C2801P-1/4

(Rolled) C□□PL　　(Milled) C□□PF



Part Number Type	Upper-Lower Surface Finish	0.1mm Increment A	0.1mm Increment B	T Selectable/Configurable
		A≥B		
CTAP (Tough Pitch Copper) CJAP (Oxygen Free Copper) CCSP (Chrome Copper) C28P (Brass Plate)	*L (Rolled)	6~300	6~300	5, 6, 8, 10, 12, 15, 20, 25, 30
	F (Milled)	16~300	6~300	3~30 (0.1mm Increment)

* When CCSP (Chromium Copper) and L (Rolled) are selected, T15 or larger sizes are cast and wrought products.

■Precision Standards

(Max. Value)

Item	Upper-Lower Surface Finish L (Rolled)	Upper-Lower Surface Finish F (Milled)
Parallelism (per 100mm)	-	0.02 or Less
Flatness (per 100mm)	2mm (per 1000 mm)	0.02 or Less
Perpendicularity (per 100mm)	0.02 or Less	
Circumference Chamfering	C0.1 Fine Chamfering	

■Plate Thickness Tolerance

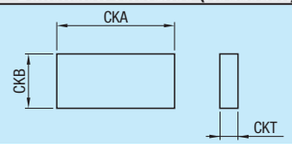
Upper-Lower Surface Finish	T					
L (Rolled)	5	6, 8	10, 12	15, 20	25	30
	±0.18	±0.23	±0.28	±0.35	±0.55	±0.66
F (Milled)	±0.05					

Ordering Example

Part Number								
Type	Upper-Lower Surface Finish	-	A	-	B	-	T	
C28P	F	-	255.3	-	221.1	-	18.9	

Alterations

Part Number		A		B		T	-(CKA, CKB···etc.)
C28PF	-	255.3	-	221.1	-	18.9	- CKT

	Dimension Tolerance (Reduction)
Alterations	
Code	CKA, CKB, CKT
Spec.	Improves the dimension tolerance. ±0.05→±0.025 Ordering Code CKA for A Dimension CKB for B Dimension CKT for T Dimension Suitable for milling only.

	Code
A (Length)	CKA
B (Width)	CKB
T (Plate Thickness)	CKT

(Ex.) For CTAPL-220.3-100-10
A Dimension x Area Unit Price = Price

■CTAPL (Tough Pitch Copper 4-Surface Milled & Rolled)

A	B \ T	5	6	8	10	12	15	20	25	30
6 ~ 50	6~10						-	-	-	-
50.1~ 100							-	-	-	-
100.1~ 150							-	-	-	-
150.1~ 200							-	-	-	-
200.1~ 250							-	-	-	-
250.1~ 300							-	-	-	-
10.1~ 50	10.1~15								-	-
50.1~ 100									-	-
100.1~ 150									-	-
150.1~ 200									-	-
200.1~ 250									-	-
250.1~ 300									-	-
15.1~ 50	15.1~20									
50.1~ 100										
100.1~ 150										
150.1~ 200										
200.1~ 250										
250.1~ 300										
20.1~ 100	20.1~30									
100.1~ 150										
150.1~ 200										
200.1~ 250										
250.1~ 300										
30.1~ 100	30.1~40									
100.1~ 150										
150.1~ 200										
200.1~ 250										
250.1~ 300										
40.1~ 100	40.1~60									
100.1~ 150										
150.1~ 200										
200.1~ 250										
250.1~ 300										
60.1~ 100	60.1~80									
100.1~ 150										
150.1~ 200										
200.1~ 250										
250.1~ 300										
80.1~ 150	80.1~100									
150.1~ 200										
200.1~ 250										
250.1~ 300										
100.1~ 150	100.1~146									
150.1~ 200										
200.1~ 250										
250.1~ 300										
146.1~ 250	146.1~200									
250.1~ 300										
200.1~ 300	200.1~250									
250.1~ 300	250.1~300									

■CJAPL (Oxygen Free Copper 4-Surface Milled & Rolled)

A	B \ T	5	6	8	10	12	15	20	25	30
6 ~ 50	6~10						-	-	-	-
50.1~ 100							-	-	-	-
100.1~ 150							-	-	-	-
150.1~ 200							-	-	-	-
200.1~ 250							-	-	-	-
250.1~ 300							-	-	-	-
10.1~ 50	10.1~15								-	-
50.1~ 100									-	-
100.1~ 150									-	-
150.1~ 200									-	-
200.1~ 250									-	-
250.1~ 300									-	-
15.1~ 50	15.1~20									
50.1~ 100										
100.1~ 150										
150.1~ 200										
200.1~ 250										
250.1~ 300										
20.1~ 100	20.1~30									
100.1~ 150										
150.1~ 200										
200.1~ 250										
250.1~ 300										
30.1~ 100	30.1~40									
100.1~ 150										
150.1~ 200										
200.1~ 250										
250.1~ 300										
40.1~ 100	40.1~60									
100.1~ 150										
150.1~ 200										
200.1~ 250										
250.1~ 300										
60.1~ 100	60.1~80									
100.1~ 150										
150.1~ 200										
200.1~ 250										
250.1~ 300										
80.1~ 150	80.1~100									
150.1~ 200										
200.1~ 250										
250.1~ 300										
100.1~ 150	100.1~146									
150.1~ 200										
200.1~ 250										
250.1~ 300										
146.1~ 250	146.1~200									
250.1~ 300										
200.1~ 300	200.1~250									
250.1~ 300	250.1~300									

■CTAPF (Tough Pitch Copper 6-Surface Milled)

A	B \ T	3~3.9	4~4.9	5~5.9	6~7.9	8~9.9	10~14.9	15~19.9	20~24.9	25~30
16 ~ 50	6~10						-	-	-	-
50.1~ 100							-	-	-	-
100.1~ 150							-	-	-	-
16 ~ 50	10.1~15							-	-	-
50.1~ 100								-	-	-
100.1~ 150								-	-	-
150.1~ 200		-	-	-				-	-	-
200.1~ 250		-	-	-				-	-	-
250.1~ 300		-	-	-				-	-	-
16 ~ 50	15.1~20								-	-
50.1~ 100									-	-
100.1~ 150									-	-
150.1~ 200		-	-	-					-	-
200.1~ 250		-	-	-					-	-
250.1~ 300		-	-	-					-	-
20.1~ 100	20.1~25									-
100.1~ 150										-
150.1~ 200		-	-	-						-
200.1~ 250		-	-	-						-
250.1~ 300		-	-	-						-
25.1~ 100	25.1~40									
100.1~ 150										
150.1~ 200		-	-	-						
200.1~ 250		-	-	-						
250.1~ 300		-	-	-						
40.1~ 100	40.1~60									
100.1~ 150										
150.1~ 200		-	-	-						
200.1~ 250		-	-	-						
250.1~ 300		-	-	-						
60.1~ 100	60.1~80									
100.1~ 150										
150.1~ 200		-	-	-						
200.1~ 250		-	-	-						
250.1~ 300		-	-	-						
80.1~ 150	80.1~100									
150.1~ 200		-	-	-						
200.1~ 250		-	-	-						
250.1~ 300		-	-	-						
100.1~ 150	100.1~146									
150.1~ 200		-	-	-						
200.1~ 250		-	-	-						
250.1~ 300		-	-	-						
146.1~ 250	146.1~200	-	-	-	-					
250.1~ 300		-	-	-	-					
200.1~ 300	200.1~250	-	-	-	-					
250.1~ 300	250.1~300	-	-	-	-					

■CJAPF (Oxygen Free Copper 6-Surface Milled)

A	B \ T	3~3.9	4~4.9	5~5.9	6~7.9	8~9.9	10~14.9	15~19.9	20~24.9	25~30
16 ~ 50	6~10						-	-	-	-
50.1~ 100							-	-	-	-
100.1~ 150							-	-	-	-
16 ~ 50	10.1~15							-	-	-
50.1~ 100								-	-	-
100.1~ 150								-	-	-
150.1~ 200		-	-	-				-	-	-
200.1~ 250		-	-	-				-	-	-
250.1~ 300		-	-	-				-	-	-
16 ~ 50	15.1~20								-	-
50.1~ 100									-	-
100.1~ 150									-	-
150.1~ 200		-	-	-					-	-
200.1~ 250		-	-	-					-	-
250.1~ 300		-	-	-					-	-
20.1~ 100	20.1~25									-
100.1~ 150										-
150.1~ 200		-	-	-						-
200.1~ 250		-	-	-						-
250.1~ 300		-	-	-						-
25.1~ 100	25.1~40									
100.1~ 150										
150.1~ 200		-	-	-						
200.1~ 250		-	-	-						
250.1~ 300		-	-	-						
40.1~ 100	40.1~60									
100.1~ 150										
150.1~ 200		-	-	-						
200.1~ 250		-	-	-						
250.1~ 300		-	-	-						
60.1~ 100	60.1~80									
100.1~ 150										
150.1~ 200		-	-	-						
200.1~ 250		-	-	-						
250.1~ 300		-	-	-						
80.1~ 150	80.1~100									
150.1~ 200		-	-	-						
200.1~ 250		-	-	-						
250.1~ 300		-	-	-						
100.1~ 150	100.1~146									
150.1~ 200		-	-	-						
200.1~ 250		-	-	-						
250.1~ 300		-	-	-						
146.1~ 250	146.1~200	-	-	-	-					
250.1~ 300		-	-	-	-					
200.1~ 300	200.1~250	-	-	-	-					
250.1~ 300	250.1~300	-	-	-	-					

For the price list of chrome copper and brass plates, refer to the next page.