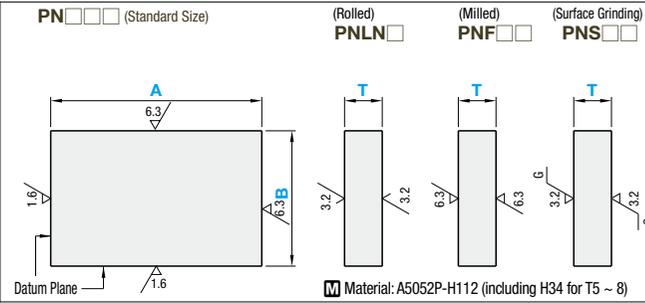
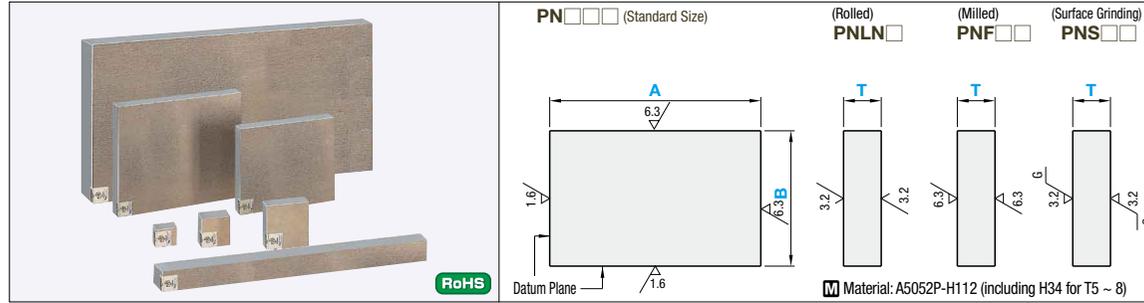


# Configurable Plates - Aluminum

## A5052P (Al-Mg Aluminum Alloy)



(Ex.) For PNFQM-255-220-18  
 A Dimension x Area Unit Price = Price

| Type     | Part Number | Upper-Lower Surface Finish | ① Plate Thickness Tolerance | ② A, B Dimension Tolerance | 0.5mm Increment |         | T Selectable/Configurable               |
|----------|-------------|----------------------------|-----------------------------|----------------------------|-----------------|---------|---|
|          |             |                            |                             |                            | A               | B       |   |
| Standard | PN          | L (Rolled)                 | N                           | P<br>Q<br>N<br>M           | 25~ 500         | 10~ 300 | 5, 6, 8, 10, 12, 15, 20, 25, 30, 40, 50 |
| Standard | PN          | F (Milled)                 | P<br>Q<br>N<br>M            | P<br>Q<br>N<br>M           | 25~ 500         | 10~ 300 | 5~49 (0.5mm Increment)                  |
|          | PN          | S (Surface Grinding)       | P<br>Q<br>N<br>M            | P<br>Q<br>N<br>M           | 25~ 500         | 10~ 300 | 5, 6, 7~49 (0.5mm Increment)            |

① Plate Thickness Tolerance

| Upper-Lower Surface Finish | T Dimension |       |       |      |      |        |      |      |        |      |        |
|----------------------------|-------------|-------|-------|------|------|--------|------|------|--------|------|--------|
|                            | 3           | 4, 5  | 6     | 8    | 10   | 12, 15 | 20   | 25   | 30, 35 | 40   | 45, 50 |
| N (Rolled)                 | ±0.2        | ±0.35 | ±0.45 | ±0.5 | ±0.6 | ±0.7   | ±0.8 | ±0.9 | ±1.0   | ±1.1 | ±1.3   |

② A, B Dimension Tolerance

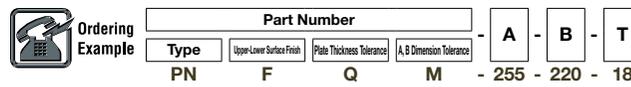
| Upper-Lower Surface Finish | A, B Dimension  | P          | Q             | N         | M      |
|----------------------------|-----------------|------------|---------------|-----------|--------|
|                            |                 | L (Rolled) | 250mm or Less | +0.1~+0.3 | 0~+0.2 |
| F (Milled)                 | 250.5mm or More | +0.1~+0.6  | 0~+0.5        | ±0.25     | -0.5-0 |
| S (Surface Grinding)       |                 |            |               |           |        |

Upper-Lower Surface Finish A, B Length

| Upper-Lower Surface Finish | A, B Length     | P         | Q     | N     | M      |
|----------------------------|-----------------|-----------|-------|-------|--------|
| F (Milled)                 | 550mm or Less   | +0.1~+0.3 | 0-0.2 | ±0.1  | -0.2-0 |
|                            | 550.5mm or More | +0.1~+0.4 | 0-0.3 | ±0.15 | -0.3-0 |
| S (Surface Grinding)       |                 | +0.1~+0.2 | 0-0.1 | ±0.05 | -0.1-0 |

■ Precision Standards (Max. Value)

| Item                              | Upper-Lower Surface Finish |              |                      |
|-----------------------------------|----------------------------|--------------|----------------------|
|                                   | L (Rolled)                 | F (Milled)   | S (Surface Grinding) |
| Thickness Parallelism (per 100mm) | T3~6.5                     |              | 0.025                |
|                                   | T7~12.5                    |              | 0.03                 |
|                                   | T13~15.5                   |              | 0.05                 |
|                                   | T16~20.5                   |              | 0.07                 |
|                                   | T21~50                     |              | 0.1                  |
| Flatness (per 100mm)              | T3~8.5                     | 0.15         | 0.12                 |
|                                   | T9~12.5                    |              | 0.13                 |
|                                   | T13~20.5                   |              | 0.12                 |
|                                   | T21~50                     |              | 0.1                  |
| Perpendicularity of Datum Plane   | 0.015 per 100mm            |              |                      |
| Circumference Chamfering          | Standard                   | C0.3 or Less |                      |



Alterations Part Number - A - B - T - (CSC, CBC...etc.)  
 PNFNM - 300 - 280 - 20 - CSC

| Alterations   | Circumference Chamfering  | Corner Cut  |            |           |                |      |          |              |           |            |   |               |     |      |       |       |       |
|---------------|---|---|------------|-----------|----------------|------|----------|--------------|-----------|------------|---|---------------|-----|------|-------|-------|-------|
|               | <p>Code: <b>CSC</b></p> <p>Spec: Reduce the circumference chamfering dimension. Standard C0.3~C0.1 or Less. <br/>                     (Applicable to Standard Size only.)</p> | <p>Code: <b>(See below)</b></p> <p>Spec: Increase the circumference chamfering dimension.</p> <table border="1"> <thead> <tr> <th>Size</th> <th>Standards</th> <th>Modified Value</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Standard</td> <td>C0.3 or Less</td> <td>C0.5-C1.0</td> <td><b>CBC</b></td> </tr> </tbody> </table> | Size       | Standards | Modified Value | Code | Standard | C0.3 or Less | C0.5-C1.0 | <b>CBC</b> | <p>Code: <b>CCA, CCB, CCC, CCD</b></p> <p>Spec: Cuts any corners. 1≤ Corner Cut ≤50: 1mm Increment</p> <table border="1"> <thead> <tr> <th>1mm Increment</th> </tr> </thead> <tbody> <tr><td>1-5</td></tr> <tr><td>6-10</td></tr> <tr><td>11-20</td></tr> <tr><td>21-30</td></tr> <tr><td>31-40</td></tr> <tr><td>41-50</td></tr> </tbody> </table> <p>Ordering Code: <math>C_s \frac{A}{2} \frac{B}{2}</math></p> <p>(Ex.)When the corners of A and D are cut by C5, → CCA5-CCD5</p> | 1mm Increment | 1-5 | 6-10 | 11-20 | 21-30 | 31-40 |
| Size          | Standards   | Modified Value  | Code       |           |                |      |          |              |           |            |   |               |     |      |       |       |       |
| Standard      | C0.3 or Less  | C0.5-C1.0   | <b>CBC</b> |           |                |      |          |              |           |            |   |               |     |      |       |       |       |
| 1mm Increment |   |   |            |           |                |      |          |              |           |            |   |               |     |      |       |       |       |
| 1-5           |   |   |            |           |                |      |          |              |           |            |   |               |     |      |       |       |       |
| 6-10          |   |   |            |           |                |      |          |              |           |            |   |               |     |      |       |       |       |
| 11-20         |   |   |            |           |                |      |          |              |           |            |   |               |     |      |       |       |       |
| 21-30         |   |   |            |           |                |      |          |              |           |            |   |               |     |      |       |       |       |
| 31-40         |   |   |            |           |                |      |          |              |           |            |   |               |     |      |       |       |       |
| 41-50         |   |   |            |           |                |      |          |              |           |            |   |               |     |      |       |       |       |

| Part Number | A         | B         | T | 5    | 6       | 8       | 10                                      | 12 | 15 | 20 | 25 | 30 | 40 | 50 |  |
|-------------|-----------|-----------|---|------|---------|---------|---|----|----|----|----|----|----|----|--|
|             |           |           |   | PNLN | 25 ~ 50 | 10-19.5 | 5, 6, 8, 10, 12, 15, 20, 25, 30, 40, 50 |    |    |    |    |    |    |    |  |
| 50.5~ 75    |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 75.5~ 100   |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 100.5~ 250  |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 25 ~ 50     | 20-50     |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 50.5~ 75    |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 75.5~ 100   |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 100.5~ 250  |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 50.5~ 75    |           | 50.5~75   |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 75.5~ 100   |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 100.5~ 200  |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 200.5~ 500  |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 75.5~ 100   | 75.5~100  |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 100.5~ 200  |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 200.5~ 300  |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 300.5~ 500  |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 100.5~ 250  |           | 100.5~125 |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 250.5~ 500  |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 125.5~ 300  |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 300.5~ 500  |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 150.5~ 300  | 150.5~160 |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 300.5~ 500  |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 160.5~ 500  |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 200.5~ 500  |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |
| 250.5~ 500  |           |           |   |      |         |         |   |    |    |    |    |    |    |    |  |

| Part Number | A         | B         | T | 5   | 5.5, 6  | 6.5-8   | 8.5-10  | 10.5-12 | 12.5-15 | 15.5-20 | 20.5-25 | 25.5-30 | 30.5-39 | 39.5-49 |  |
|-------------|-----------|-----------|---|-----|---------|---------|---|---------|---------|---------|---------|---------|---------|---------|--|
|             |           |           |   | PNF | 25 ~ 50 | 10-19.5 | 5, 5.5, 6, 6.5-8, 8.5-10, 10.5-12, 12.5-15, 15.5-20, 20.5-25, 25.5-30, 30.5-39, 39.5-49 |         |         |         |         |         |         |         |  |
| 50.5~ 75    |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 75.5~ 100   |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 100.5~ 250  |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 25 ~ 50     | 20-50     |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 50.5~ 75    |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 75.5~ 100   |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 100.5~ 250  |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 50.5~ 75    |           | 50.5~75   |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 75.5~ 100   |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 100.5~ 200  |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 200.5~ 500  |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 75.5~ 100   | 75.5~100  |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 100.5~ 200  |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 200.5~ 300  |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 300.5~ 500  |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 100.5~ 250  |           | 100.5~125 |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 250.5~ 500  |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 125.5~ 300  |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 300.5~ 500  |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 150.5~ 300  | 150.5~160 |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 300.5~ 500  |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 160.5~ 500  |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 200.5~ 500  |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |
| 250.5~ 500  |           |           |   |     |         |         |   |         |         |         |         |         |         |         |  |

| Part Number | A         | B         | T | 5   | 6       | 7-8     | 8.5-10   | 10.5-12 | 12.5-15 | 15.5-20 | 20.5-25 | 25.5-30 | 30.5-39 | 39.5-49 |  |
|-------------|-----------|-----------|---|-----|---------|---------|--|---------|---------|---------|---------|---------|---------|---------|--|
|             |           |           |   | PNS | 25 ~ 50 | 10-19.5 | 5, 6, 7-8, 8.5-10, 10.5-12, 12.5-15, 15.5-20, 20.5-25, 25.5-30, 30.5-39, 39.5-49 |         |         |         |         |         |         |         |  |
| 50.5~ 75    |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 75.5~ 100   |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 100.5~ 250  |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 25 ~ 50     | 20-50     |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 50.5~ 75    |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 75.5~ 100   |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 100.5~ 250  |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 50.5~ 75    |           | 50.5~75   |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 75.5~ 100   |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 100.5~ 200  |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 200.5~ 500  |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 75.5~ 100   | 75.5~100  |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 100.5~ 200  |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 200.5~ 300  |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 300.5~ 500  |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 100.5~ 250  |           | 100.5~125 |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 250.5~ 500  |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 125.5~ 300  |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 300.5~ 500  |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 150.5~ 300  | 150.5~160 |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 300.5~ 500  |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 160.5~ 500  |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 200.5~ 500  |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |
| 250.5~ 500  |           |           |   |     |         |         |  |         |         |         |         |         |         |         |  |

① T5, 6, 8, 10, 12, 15, 20, 25, 30 of PNS are buff finished.  
 ② Sizes larger than plate thickness 50 and precision tolerance are only available on "Material Shop 24 Website". For details, see P1697.  
 \* Except Surface Grinding