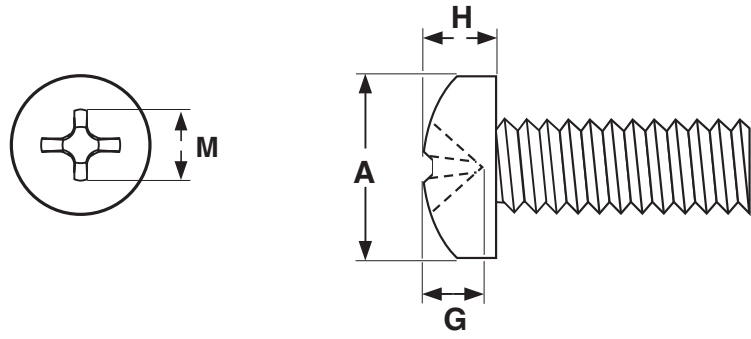


MACHINE SCREWS **Steel JIS B1111**
Small Pan Head



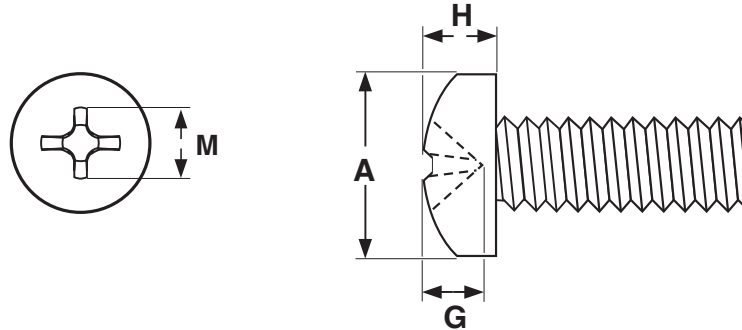
| METRIC - JIS-B1111 SMALL PAN HEAD PHILLIPS MACHINE SCREW | | | | | | | | | JIS-B1111 |
|--|--------------|---------------|-----|----------------|------|-----------------|--------------------------|------|----------------------|
| Nominal Size | Thread Pitch | A | | H | | M | G | | Phillips Driver Size |
| | | Head Diameter | | Height of Head | | Recess Diameter | Recess Gauge Penetration | | |
| | | Max | Min | Max | Min | Ref | Max | Min | |
| M3 | 0.5 | 5.5 | 5.0 | 2.15 | 1.85 | 3.6 | 1.43 | 0.86 | 2 |
| M4 | 0.7 | 7.0 | 6.5 | 2.75 | 2.45 | 4.2 | 2.03 | 1.45 | 2 |
| M5 | 0.8 | 9.0 | 8.4 | 3.45 | 3.15 | 4.9 | 2.73 | 2.14 | 2 |
| M6 | 1 | 10.5 | 9.8 | 4.1 | 3.7 | 6.3 | 2.86 | 2.26 | 3 |

| Tolerance on Length | Nominal Diameter | Nominal Screw Length | | | | |
|---------------------|------------------|----------------------|------------------|-------------------|-------------------|-----------|
| | | 4mm or under | Over 4mm to 10mm | Over 10mm to 20mm | Over 20mm to 40mm | Over 40mm |
| | M3 and M4 | - | -0.6 | -0.6 | -0.8 | -1 |
| M5 and M6 | - | -0.8 | -1 | -1 | -1 | |

| | |
|---------------------------------|---|
| Description | A pan head, straight shank fastener with a metric thread pitch designed to go through a hole or nut that is pre-tapped to form a mating thread for the screw. The height and diameter of the pan head are between 5 and 20% smaller than a standard pan head. |
| Applications/ Advantages | The "Small Pan" head machine screw per JIS-B1111 is a preferred design for use in small electronic components where there is limited clearance area. The M3 and M4 diameters also meet the requirements of SN 213307 Cheese head screws. |
| Material | Class 4.8 machine screws shall be made from a carbon steel, partially or fully annealed as required, which conforms to the following chemical composition-- Carbon: 0.55% maximum; Phosphorus: 0.05% maximum; Sulfur: 0.06% maximum. |
| Hardness | Rockwell B 71 - 99.5 (Vickers HV 130 - 250) |
| Tensile Strength | 420 N/mm ² minimum |
| Plating | Parts are typically provided with a clear zinc finish. |

**Stainless JIS B1111
Small Pan Head**

MACHINE SCREWS



| METRIC - JIS-B1111 SMALL PAN HEAD PHILLIPS MACHINE SCREW | | | | | | | | | JIS-B1111 |
|--|--------------|---------------|-----|----------------|------|-----------------|--------------------------|------|----------------------|
| Nominal Size | Thread Pitch | A | | H | | M | G | | Phillips Driver Size |
| | | Head Diameter | | Height of Head | | Recess Diameter | Recess Gauge Penetration | | |
| | | Max | Min | Max | Min | Ref | Max | Min | |
| M3 | 0.5 | 5.5 | 5.0 | 2.15 | 1.85 | 3.6 | 1.43 | 0.86 | 2 |
| M4 | 0.7 | 7.0 | 6.5 | 2.75 | 2.45 | 4.2 | 2.03 | 1.45 | 2 |
| M5 | 0.8 | 9.0 | 8.4 | 3.45 | 3.15 | 4.9 | 2.73 | 2.14 | 2 |
| M6 | 1 | 10.5 | 9.8 | 4.1 | 3.7 | 6.3 | 2.86 | 2.26 | 3 |

| Tolerance on Length | Nominal Diameter | Nominal Screw Length | | | | |
|---------------------|------------------|----------------------|------------------|-------------------|-------------------|-----------|
| | | 4mm or under | Over 4mm to 10mm | Over 10mm to 20mm | Over 20mm to 40mm | Over 40mm |
| | M3 and M4 | - | -0.6 | -0.6 | -0.8 | -1 |
| M5 and M6 | - | -0.8 | -1 | -1 | -1 | |

| | |
|---------------------------------|---|
| Description | A pan head, straight shank fastener with a metric thread pitch designed to go through a hole or nut that is pre-tapped to form a mating thread for the screw. The height and diameter of the pan head are between 5 and 20% smaller than a standard pan head. |
| Applications/ Advantages | Used in applications requiring resistance to corrosive environments. The "Small Pan" head machine screw per JIS-B1111 is a preferred design for use in small electronic components where there is limited clearance area. The M3 and M4 diameters also meet the requirements of SN 213307 Cheese head screws. |
| Material | A2 Stainless Steel |
| Hardness | - |
| Tensile Strength | 72,500 psi. minimum |
| Plating | Stainless machine screws are usually supplied without any additional finish. |