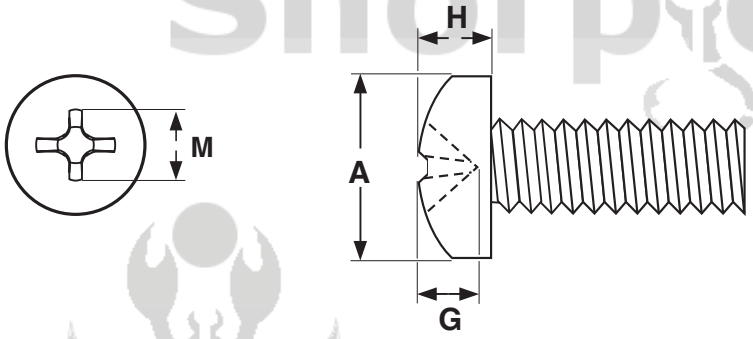
MACHINE SCREWS

Steel JIS B1111
Small Pan Head



METRIC - JIS-B1111 SMALL PAN HEAD PHILLIPS MACHINE SCREW

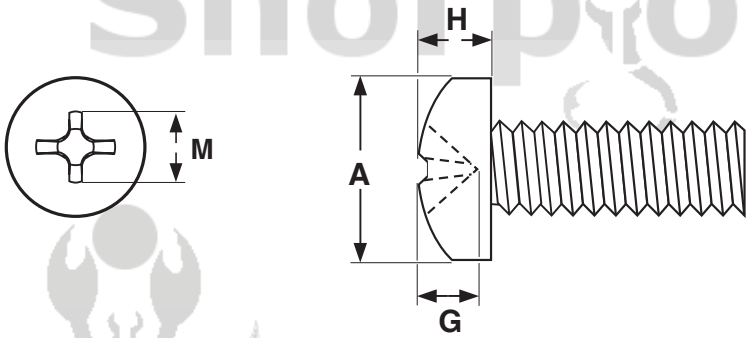
JIS-B1111

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 suuplied without any additional finish.