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MS35218 screw — pan, cross-recessed

MS35218: pan head machine screw, cross-recessed, 2024 aluminum alloy, anodized, UNC-2A threads, sizes .086 to .375.

Specification

Item	Value
Head	pan, cross-recessed
Drive	cross-recess (MS9006)
Thread series	UNC-2A
Material	Aluminum alloy 2024, QQ-A-200/3 or QQ-A-225/6; minimum ultimate tensile strength 62000 psi

Item	Value
Finish	Anodized, MIL-A-8625, Type I or II, Class 1
Procurement	FF-S-92
Thread specification	FED-STD-H28/2
Status	Check the current issue before design use. Rev. B (12 Jun 1974). Amendment 1 (5 Oct 1992): P head radius changed from minimum to reference; threads per FED-STD-H28/2, acceptability per FED-STD-H28/20, System 21. Notice 1 (18 Nov 1999): Inactive for new design; used only for replacement purposes. Notice 2 (Sep 2018): remains inactive for new design; valid for use. Notice 3 (Mar 2025): remains inactive for new design; valid for use.

Dimensions by size

Dimension, in	.086-56 UNC-2A	.112-40 UNC-2A	.138-32 UNC-2A	.164-32 UNC-2A	.190-24 UNC-2A	.250-20 UNC-2A	.3125-18 UNC-2A	.375-16 UNC-2A
D body dia	.0717 - .0860	.0925 - .1120	.1141 - .1380	.1399 - .1640	.1586 - .1900	.2127 - .2500	.2712 - .3125	.3287 - .3750
A head dia	.155 - .167	.205 - .219	.256 - .270	.306 - .322	.357 - .373	.473 - .492	.594 - .615	.716 - .740
H head height	.053 - .062	.070 - .080	.087 - .097	.105 - .115	.122 - .133	.162 - .175	.203 - .218	.244 - .261
P head radius ref	.010	.010	.015	.015	.020	.035	.040	.040
R fillet radius max	.013	.017	.021	.025	.029	.038	.047	.056
driver size	1	1	2	2	2	3	4	4
min tensile lbf	225	370	560	860	1080	1970	3250	4800

Inches, minimum - maximum as tabulated in MS35218 Rev. B; letters as on the standard's drawing. P is a reference value (Amendment 1).

Part numbers and lengths

.086-56 UNC-2A 9 part numbers · tolerance +.00/-.03

Part no.	Length, in
MS35218-1	.12
MS35218-2	.19
MS35218-3	.25
MS35218-4	.31
MS35218-5	.38
MS35218-6	.44
MS35218-7	.50
MS35218-8	.62
MS35218-9	.75

.112-40 UNC-2A 11 part numbers · tolerance +.00/-.03

Part no.	Length, in
MS35218-10	.12
MS35218-11	.19
MS35218-12	.25
MS35218-13	.31
MS35218-14	.38
MS35218-15	.44
MS35218-16	.50
MS35218-17	.62
MS35218-18	.75
MS35218-19	.88
MS35218-20	1.00

.138-32 UNC-2A 15 part numbers

Part no.	Length, in	Tol.
MS35218-21	.12	+.00/-.03
MS35218-22	.19	+.00/-.03
MS35218-23	.25	+.00/-.03
MS35218-24	.31	+.00/-.03
MS35218-25	.38	+.00/-.03
MS35218-26	.44	+.00/-.03
MS35218-27	.50	+.00/-.03
MS35218-28	.62	+.00/-.03
MS35218-29	.75	+.00/-.03
MS35218-30	.88	+.00/-.03
MS35218-31	1.00	+.00/-.03
MS35218-32	1.25	+.00/-.06
MS35218-33	1.50	+.00/-.06
MS35218-34	1.75	+.00/-.06
MS35218-35	2.00	+.00/-.06

.164-32 UNC-2A 15 part numbers

Part no.	Length, in	Tol.
MS35218-36	.12	+.00/-.03
MS35218-37	.19	+.00/-.03
MS35218-38	.25	+.00/-.03
MS35218-39	.31	+.00/-.03
MS35218-40	.38	+.00/-.03
MS35218-41	.44	+.00/-.03
MS35218-42	.50	+.00/-.03
MS35218-43	.62	+.00/-.03
MS35218-44	.75	+.00/-.03
MS35218-45	.88	+.00/-.03
MS35218-46	1.00	+.00/-.03
MS35218-47	1.25	+.00/-.06
MS35218-48	1.50	+.00/-.06
MS35218-49	1.75	+.00/-.06
MS35218-50	2.00	+.00/-.06

.190-24 UNC-2A 15 part numbers

Part no.	Length, in	Tol.
MS35218-51	.25	+.00/-.03
MS35218-52	.31	+.00/-.03
MS35218-53	.38	+.00/-.03
MS35218-54	.44	+.00/-.03
MS35218-55	.50	+.00/-.03
MS35218-56	.62	+.00/-.03
MS35218-57	.75	+.00/-.03
MS35218-58	.88	+.00/-.03
MS35218-59	1.00	+.00/-.03
MS35218-60	1.25	+.00/-.06
MS35218-61	1.50	+.00/-.06
MS35218-62	1.75	+.00/-.06
MS35218-63	2.00	+.00/-.06
MS35218-64	2.25	+.00/-.09
MS35218-65	2.50	+.00/-.09

.250-20 UNC-2A 14 part numbers

Part no.	Length, in	Tol.
MS35218-66	.31	+.00/-.03
MS35218-67	.38	+.00/-.03
MS35218-68	.44	+.00/-.03
MS35218-69	.50	+.00/-.03
MS35218-70	.62	+.00/-.03
MS35218-71	.75	+.00/-.03
MS35218-72	.88	+.00/-.03
MS35218-73	1.00	+.00/-.03
MS35218-74	1.25	+.00/-.06
MS35218-75	1.50	+.00/-.06
MS35218-76	1.75	+.00/-.06
MS35218-77	2.00	+.00/-.06
MS35218-78	2.25	+.00/-.09
MS35218-79	2.50	+.00/-.09

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

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.3125-18 UNC-2A 13 part numbers

Part no.	Length, in	Tol.
MS35218-80	.38	+.00/-.03
MS35218-81	.44	+.00/-.03
MS35218-82	.50	+.00/-.03
MS35218-83	.62	+.00/-.03
MS35218-84	.75	+.00/-.03
MS35218-85	.88	+.00/-.03
MS35218-86	1.00	+.00/-.03
MS35218-87	1.25	+.00/-.06
MS35218-88	1.50	+.00/-.06
MS35218-89	1.75	+.00/-.06
MS35218-90	2.00	+.00/-.06
MS35218-91	2.25	+.00/-.09
MS35218-92	2.50	+.00/-.09

.375-16 UNC-2A 13 part numbers

Part no.	Length, in	Tol.
MS35218-93	.50	+.00/-.03
MS35218-94	.62	+.00/-.03
MS35218-95	.75	+.00/-.03
MS35218-96	.88	+.00/-.03
MS35218-97	1.00	+.00/-.03
MS35218-98	1.25	+.00/-.06
MS35218-99	1.50	+.00/-.06
MS35218-100	1.75	+.00/-.06
MS35218-101	2.00	+.00/-.06
MS35218-102	2.25	+.00/-.09
MS35218-103	2.50	+.00/-.09
MS35218-104	2.75	+.00/-.09
MS35218-105	3.00	+.00/-.09

How to read the part number

Part	Meaning
Format	MS35218-<dash number>
Example	MS35218-1: .086-56 UNC-2A, .12 long
Length tolerance, .12 to 1.00	+.00/-.03
Length tolerance, 1.25 to 2.00	+.00/-.06
Length tolerance, 2.25 to 3.00	+.00/-.09
Dash	Dash number from Table I selects size and length (1 to 105)

Notes

- Thread length: full form threads extend to within 2 threads or less of the head bearing surface for lengths through 2.00; longer screws have a minimum full form thread length of 1.50.
- Recess in accordance with MS9006. Tensile strength in the table is the minimum, in pounds.
- Supersedes MS35235, MS35313 and, in part, MS35357, MS35359 thru MS35362, MS35364 thru MS35366, AN515 and AN526. Sheets 2 and 3 of the standard list the cancelled dash numbers and the MS35218 numbers that replace them.
- Part number: the MS number plus the dash number, for example MS35218-1.

SOURCES · MS35218 Rev. B, 12 Jun 1974 — Screw, Machine - Pan Head, Cross-Recessed, Aluminum Alloy, UNC-2A

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