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MS27647 — self-aligning, light and heavy duty (with or without lubrication groove)

Airframe Bearing, Antifriction, Self-Aligning, Light and Heavy Duty: dimensions and part numbers as tabulated.

Specification

Item	Value
Type	Airframe bearing, antifriction
Material	Airframe antifriction bearing
Status	Check the current issue of the standard before design use.

Dimensions by size

Dimension, in	-4A	-4	-5	-6	-8
B — bore (+.0000 / -.0005)	.2500	.2500	.3125	.3750	.5000
D — outside diameter (+.0000 / -.0005)	.6250	.7500	.8750	1.063	1.438
W — width of inner ring (+.000 / -.005)	.562	.875	.938	1.188	1.500
H — width of outer ring (+.000 / -.005)	.500	.750	.813	1.063	1.375
A — shoulder diameter, inner (approx.)	.338	.372	.466	.570	.709
E — inner ring bore chamfer (+.015 / -.000)	.005	.005	.005	.005	.005
C — outer ring OD chamfer (+.015 / -.000)	.016	.016	.016	.016	.032
Radial limit — Radial limit load, lb	1400	2700	5140	8440	15520
Thrust limit — Thrust limit load, lb	500	900	1600	2600	4700
Rating, Case I — Radial load rating, lb, Case I (avg. life 10,000 complete 90° cycles)	1050	2070	2600	4220	7610
Rating, Case II — Radial load rating, lb, Case II (avg. life 10,000 complete 90° cycles)	960	1850	2320	3740	6520

Dimensions in inches, loads in pounds, as tabulated; tolerances in the dimension names.

Part numbers

Part no.	Size
MS27647-4A	.2500
MS27647-4	.2500
MS27647-5	.3125
MS27647-6	.3750
MS27647-8	.5000

Dash numbers of the standard, each with its own link.

How to read the part number

Part	Meaning
Format	MS27647-<dash>
Example	MS27647-4A — dash 4A

Notes

- Case I and Case II are the two radial load rating columns of the listing, for an average life of 10,000 complete 90° cycles.
- Part numbers of the manufacturer (Mfg. P/N) are given as listed.

SOURCES · MS27647 — Airframe Bearing, Antifriction, Self-Aligning, Light and Heavy Duty

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/bearings/ms27647/

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