THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM

MS27645 — self-aligning, light and heavy duty

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	-3A	-4A	-5A	-6A	-3	-4	-5	-6
B — bore (+.0000 / -.0005)	.1900	.2500	.3125	.3750	.1900	.2500	.3125	.3750
D — outside diameter (+.0000 / -.0005)	.6250	.7500	.8125	.8750	.7774	.9014	1.250	1.438
W — width of inner ring (+.000 / -.005)	.245	.281	.297	.313	.297	.484	.558	.620
H — width of outer ring (+.000 / -.005)	.303	.219	.234	.250	.270	.335	.375	.469
A — shoulder diameter, inner (approx.)	.253	.321	.381	.453	.290	.390	.561	.607
E — inner ring bore chamfer (+.015 / -.000)	.005	.005	.015	.016	.005	.005	.015	.015
C — outer ring OD chamfer (+.015 / -.000)	.016	.016	.016	.016	.022	.032	.032	.032
Radial limit — Radial limit load, lb	550	900	1000	1120	900	1410	2190	2980
Thrust limit — Thrust limit load, lb	100	200	200	200	200	300	300	400
Rating, Case I — Radial load rating, lb, Case I (avg. life 10,000 complete 90° cycles)	550	900	950	1120	900	1230	2190	2980
Rating, Case II — Radial load rating, lb, Case II (avg. life 10,000 complete 90° cycles)	480	770	815	990	770	1230	1890	2580
Axial play — Axial play, in max	.023	.025	.028	.030	.023	.025	.028	.030

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

Part numbers

.1900 2 part numbers

Part no.	Mfg. P/N (as listed)
MS27645-3A	KSP3L
MS27645-3	KSP3

.3125 2 part numbers

Part no.	Mfg. P/N (as listed)
MS27645-5A	KSP5A
MS27645-5	KSP5

.2500 2 part numbers

Part no.	Mfg. P/N (as listed)
MS27645-4A	KSP4A
MS27645-4	KSP4

.3750 2 part numbers

Part no.	Mfg. P/N (as listed)
MS27645-6A	KSP6A
MS27645-6	KSP6

How to read the part number

Part	Meaning
Format	MS27645-<dash>
Example	MS27645-3A — dash 3A

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 · MS27645 — Airframe Bearing, Antifriction, Self-Aligning, Light and Heavy Duty

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/bearings/ms27645/

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