Tolerances

Table of Recommended Fits*

Typical Applications	Shaft Fit	Shaft Diameter	Housing Fit	Housing Diameter
Tape guide roller, pulley, cam follower, outer ring rotation	.0000 –.0004L	d –.0002 d –.0004	.0001L –.0003T	D –.0001 D –.0003
Drive motor (spring preload)	.0001T–.0003L	d –.0001 d –.0003	.0000 –.0004L	D +.0002 D –.0000
Precision synchro or servo	.0000 –.0002L**	d –.0001 d –.0003	.0000 –.0002L**	D +.0001 D –.0001
Potentiometer	.0001T–.0003L	d –.0001 d –.0003	.0000 –.0004L	D +.0002 D –.0000
Encoder spindle	.0000 –.0002L**	d –.0001 d –.0003	.0000 –.0002T**	D –.0001 D –.0003

*Measurement in inches.

L = Loose Fit.
T = Tight Fit.
d = Bearing Bore as listed.

D = Bearing OD as listed.
**Bearings must be purchased with bore and OD coding.

EXAMPLE: To use SSR-2 bearing in a potentiometer the shaft diameter should be .1250 –.0001 to .1250 –.0003 or .1249 to .1247. The housing should be .3750 +.0002 to .3750 –.0000 or .3752 to .3750.

Table of Recommended Shoulder Diameter*

Basic Size	Minimum Shaft Shoulder Diameter	Maximum Housing Shoulder Diameter
SSRI-2	.060	.105
SSRI-2 1/2	.071	.132
SSRI-3	.079	.164
SSRI-4	.102	.226
SSRI-3332	.114	.168
SSRI-5	.122	.284
SSRI-418	.148	.226
SSRI-518	.153	.284
SSRI-618	.153	.347
SSR-2	.179	.325
SSR-2A	.179	.446
SSRI-5532	.180	.288
SSR-1640X	.210	.580
SSRI-5632	.210	.288
SSRI-6632	.216	.347
SSR-3	.244	.446
SSR-1650X	.250	.580
SSR-1950	.250	.700
SSR-1960	.290	.700
SSRI-614	.272	.352

Basic Size	Minimum Shaft Shoulder Diameter	Maximum Housing Shoulder Diameter
SSRI-814	.284	.466
SSR-4	.310	.565
SSRI-1214	.322	.678
SSR-2270	.325	.810
SSR-2280	.370	.810
SSR-2690	.420	.950
SSRI-8516	.347	.466
SSRI-1038	.435	.565
SSRI-1438	.451	.799
SSRI-2610	.470	.950
SSRI-1212	.560	.690
SSRI-1812	.625	1.025
SSRI-1458	.665	.835
SSRI-1634	.790	.960
SSRI-1218	.160	.710

*Measurement in inches.