

# 2301 SKF Internal Clearance C0-Medium 12x37x17mm Self aligning ball bearings

Bearing number	2301
Size (mm)	12x37x17
Brand	SKF
Bore Diameter (mm)	12
Outer Diameter (mm)	37
Width (mm)	17
d	12 mm
D	37 mm
B	17 mm
C	17 mm
d2	18.6 mm
r1 min.	1 mm
r2 min.	1 mm
D1	31 mm
da min.	17.6 mm
Da max.	31.4 mm
ra max.	1 mm
Weight	0.095 Kg
Basic dynamic load rating (C)	11.7 kN
Basic static load rating (C0)	2.7 kN
Fatigue load limit (Pu)	0.14
Reference speed	38000 r/min
Limiting speed	28000 r/min
Calculation factor (e)	0.6

Calculation factor (kr)	0.05
Calculation factor (Y0)	1.1
Calculation factor (Y1)	1.05
Category	Self Aligning Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.09
Product Group – BDI	B00152
Mounting Method	Shaft
Enclosure	Open
Rolling Element	Ball Bearing
Cage Material	Steel
Precision Class	ABEC 1   ISO P0
Internal Clearance	C0-Medium
Number of Rows of Balls	Double Row
Other Features	Allowable Misalignment 3 Deg
Long Description	12MM Bore; Shaft Mount; 37MM Outside Diameter; 17MM Inner Race Width; 17MM Outer Race Width; Open; Steel Cage; Double Row of Balls; ABEC 1   ISO P0; C0-Medium
Inch – Metric	Metric
Category – BDI	Self Aligning Ball Bearings
UNSPSC	31171532
Harmonized Tariff Code	8482.10.50.68
Noun	Bearing
Keyword String	Self Aligning
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>

Outside Diameter	1.457 Inch   37 Millimeter
Outer Race Width	0.669 Inch   17 Millimeter
Inner Race Width	0.669 Inch   17 Millimeter
Bore	0.472 Inch   12 Millimeter
$d_1 \approx$	18.9 mm
$D_1 \approx$	29.1 mm
$r_{1,2} \text{ min.}$	1 mm
$d_a \text{ min.}$	17.6 mm
$D_a \text{ max.}$	31.4 mm
$r_a \text{ max.}$	1 mm
Basic dynamic load rating C	11.7 kN
Basic static load rating $C_0$	2.7 kN
Fatigue load limit $P_u$	0.14 kN
Permissible angular misalignment $\alpha$	3 °
Calculation factor $k_r$	0.05
Calculation factor e	0.6
Calculation factor $Y_0$	1.1
Calculation factor $Y_1$	1.05
Calculation factor $Y_2$	1.6
Mass bearing	0.095 kg