

# 16010 SKF snap ring included: Without Snap Ring 80x50x10mm Deep groove ball bearings

Bearing number	16010
Size (mm)	80x50x10
Brand	SKF
Bore Diameter (mm)	80
Outer Diameter (mm)	50
Width (mm)	10
d	50 mm
D	80 mm
B	10 mm
d <sub>1</sub>	60 mm
D <sub>1</sub>	70 mm
r <sub>1,2</sub> – min.	0.6 mm
d <sub>a</sub> – min.	53.2 mm
D <sub>a</sub> – max.	76.8 mm
r <sub>a</sub> – max.	0.6 mm
Basic dynamic load rating – C	16.8 kN
Basic static load rating – C <sub>0</sub>	11.4 kN
Fatigue load limit – P <sub>u</sub>	0.56 kN
Reference speed	18000 r/min
Limiting speed	11000 r/min
Calculation factor – k <sub>r</sub>	0.02
Calculation factor – f <sub>0</sub>	14.1

Category	Single Row Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.194
EAN	7316577015877
Product Group – BDI	B00308
Enclosure	Open
Precision Class	ABEC 1   ISO P0
Maximum Capacity / Filling Slot	No
Rolling Element	Ball Bearing
Snap Ring	No
Internal Special Features	No
Cage Material	Steel
Internal Clearance	C0-Medium
Inch – Metric	Metric
Long Description	50MM Bore; 80MM Outside Diameter; 10MM Outer Race Diameter; Open; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; No Internal Special Features
Category – BDI	Single Row Ball Bearing
UNSPSC	31171504
Harmonized Tariff Code	8482.10.50.68
Noun	Bearing
Keyword String	Ball
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	16010
Weight / LBS	0.428

Outside Diameter	3.15 Inch   80 Millimeter
Outer Race Width	0.394 Inch   10 Millimeter
Bore	1.969 Inch   50 Millimeter
bore diameter:	50 mm
static load capacity:	11.4 kN
outside diameter:	80 mm
precision rating:	Not Rated
overall width:	10 mm
finish/coating:	Uncoated
bore type:	Round
cage material:	Steel
closure type:	Open
outer ring width:	10 mm
row type & fill slot:	Single Row Non-Fill Slot
fillet radius:	0.6 mm
snap ring included:	Without Snap Ring
maximum rpm:	11000 RPM
internal clearance:	C0
series:	16
dynamic load capacity:	16.8 kN
$d_1 \approx$	60 mm
$D_1 \approx$	70 mm
$r_{1,2} \text{ min.}$	0.6 mm
$d_a \text{ min.}$	53.2 mm
$D_a \text{ max.}$	76.8 mm
$r_a \text{ max.}$	0.6 mm
Basic dynamic load rating C	16.8 kN
Basic static load rating $C_0$	11.4 kN

Fatigue load limit $P_u$	0.56 kN
Calculation factor $k_r$	0.02
Calculation factor $f_\theta$	14.1
Mass bearing	0.18 kg