

# 209-Z SKF 45x85x19mm d1 ≈ 57.6 mm Deep groove ball bearings

Bearing number	209-Z
Size (mm)	45x85x19
Brand	SKF
Bore Diameter (mm)	45
Outer Diameter (mm)	85
Width (mm)	19
d	45 mm
D	85 mm
B	19 mm
C	19 mm
d1	57.6 mm
r1 min.	1.1 mm
r2 min.	1.1 mm
D2	75.2 mm
da min.	52 mm
da max	57.5 mm
Da max.	78 mm
ra max.	1 mm
Weight	0.44 Kg
Basic dynamic load rating (C)	35.2 kN
Basic static load rating (C0)	30 kN
Fatigue load limit (Pu)	1.27
Reference speed	14000 r/min
Limiting speed	8500 r/min

Category	Single Row Ball Bearings
BDI Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.464
EAN	7316576679674
Product Group – BDI	B00308
Enclosure	1 Metal Shield
Precision Class	ABEC 1   ISO P0
Maximum Capacity / Filling Slot	Yes
Rolling Element	Ball Bearing
Snap Ring	No
Internal Special Features	No
Cage Material	Steel
Internal Clearance	C0-Medium
Inch – Metric	Metric
Long Description	45MM Bore; 85MM Outside Diameter; 19MM Outer Race Diameter; 1 Metal Shield; Ball Bearing; ABEC 1   ISO P0; Yes 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	209 Z

Weight / LBS	0.99
Outside Diameter	3.346 Inch   85 Millimeter
Bore	1.772 Inch   45 Millimeter
Outer Race Width	0.748 Inch   19 Millimeter
bore diameter:	45 mm
static load capacity:	30 kN
outside diameter:	85 mm
precision rating:	ABEC 3 (ISO Class 6)
overall width:	19 mm
finish/coating:	Uncoated
bore type:	Round
cage material:	Steel
closure type:	Single Shield
outer ring width:	19 mm
row type & fill slot:	Single Row Filling Slot
fillet radius:	1 mm
snap ring included:	Without Snap Ring
maximum rpm:	8500 RPM
internal clearance:	C0
series:	20
dynamic load capacity:	35.2 kN
thrust application warning:	This product can not be used in Thrust Applications
$d_1 \approx$	57.6 mm
$D_2 \approx$	75.19 mm
$r_{1,2} \text{ min.}$	1.1 mm
$d_a \text{ min.}$	52 mm
$d_a \text{ max.}$	57.5 mm

$D_a$ max.	78 mm
$r_a$ max.	1 mm
Basic dynamic load rating C	35.2 kN
Basic static load rating $C_0$	30 kN
Fatigue load limit $P_u$	1.27 kN
Calculation factor $k_r$	0.04
Mass bearing	0.44 kg