



## NTN Bearing de Mexico, S.A.



623 Bearing 2D drawings and 3D CAD models

SKF/NTN/NSK Small Size Deep Groove Ball  
Bearing Miniature Bearing 623 623zz 684 684zz 694  
694zz 604 604zz 624 624zz 2RS Zz

Bearing No. 623

Size	10x3x4 mm
Bore Diameter	10 mm
Outer Diameter	3 mm
Width	4 mm
d	3 mm
D	10 mm
B	4 mm
d <sub>1</sub>	5.2 mm
D <sub>2</sub>	8.2 mm
r <sub>1,2</sub> - min.	0.15 mm
d <sub>a</sub> - min.	4.2 mm
D <sub>a</sub> - max.	8.8 mm
r <sub>a</sub> - max.	0.1 mm
Basic dynamic load rating - C	0.54 kN
Basic static load rating - C <sub>0</sub>	0.18 kN
Fatigue load limit - P <sub>u</sub>	0.007 kN
Reference speed	130000 r/min
Limiting speed	80000 r/min
Calculation factor - k <sub>r</sub>	0.025
Calculation factor - f <sub>0</sub>	7.5
Size	10x3x4 mm
Bore Diameter	10 mm
Outer Diameter	3 mm



## NTN Bearing de Mexico, S.A.

Width	4 mm
d	3 mm
D	10 mm
B	4 mm
d <sub>1</sub>	5.2 mm
D <sub>2</sub>	8.2 mm
r <sub>1,2</sub> - min.	0.15 mm
d <sub>a</sub> - min.	4.2 mm
D <sub>a</sub> - max.	8.8 mm
r <sub>a</sub> - max.	0.1 mm
Basic dynamic load rating - C	0.54 kN
Basic static load rating - C <sub>0</sub>	0.18 kN
Fatigue load limit - P <sub>u</sub>	0.007 kN
Reference speed	130000 r/min
Limiting speed	80000 r/min
Calculation factor - k <sub>r</sub>	0.025
Calculation factor - f <sub>0</sub>	7.5
Category	Single Row Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight / Kilogram	0.004
EAN	7316577112026
Product Group	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



## NTN Bearing de Mexico, S.A.

Cage Material	Steel
Internal Clearance	C0-Medium
Inch - Metric	Metric
Long Description	3MM Bore; 10MM Outside Diameter; 4MM Outer Race Diameter; Open; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; No Internal Special Features
Category	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	623
Weight / LBS	0.01
Outer Race Width	0.157 Inch   4 Millimeter
Outside Diameter	0.394 Inch   10 Millimeter
Bore	0.118 Inch   3 Millimeter
bore diameter:	3 mm
static load capacity:	0.18 kN
outside diameter:	10 mm
precision rating:	Not Rated
overall width:	4 mm
finish/coating:	Uncoated
bore type:	Round
cage material:	Steel
closure type:	Open
outer ring width:	4 mm
row type & fill slot:	Single Row Non-Fill Slot
fillet radius:	0.1 mm
snap ring included:	Without Snap Ring



## NTN Bearing de Mexico, S.A.

maximum rpm:	80000 RPM
internal clearance:	C0
series:	62
dynamic load capacity:	0.54 kN
$d_1$	5.2 mm
$D_2$	8.2 mm
$r_{1,2}$ min.	0.15 mm
$d_a$ min.	4.2 mm
$D_a$ max.	8.8 mm
$r_a$ max.	0.1 mm
Basic dynamic load rating C	0.54 kN
Basic static load rating $C_0$	0.18 kN
Fatigue load limit $P_u$	0.007 kN
Calculation factor $k_r$	0.025
Calculation factor $f_0$	7.5
Mass bearing	0.0015 kg