



623 Bearing 2D drawings and 3D CAD models

SKF 623 623-Z 623-2z 623-RS1 623-2RS1 618/4  
628/4-2z 638/4-2z 619/4-2z 619/4 604 604-Z  
604-2z Deep Groove Ball Bearing

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



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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



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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



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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