



# BEARING ITALIA S.P.A



2302 E-2RS1TN9 Bearing 2D drawings and 3D CAD models

15 mm x 42 mm x 17 mm skf 2302 E-2RS1TN9  
Self-aligning ball bearings

Bearing No. 2302 E-2RS1TN9

Category	Self Aligning Ball Bearings
Inventory	0.0
Manufacturer Name	SKF
Minimum Buy Quantity	N/A
Weight	0.118
EAN	7316570023145
Product Group	B00152
Mounting Method	Shaft
Enclosure	2 Seals
Rolling Element	Ball Bearing
Cage Material	Polyamide
Precision Class	ABEC 1   ISO P0
Internal Clearance	C0-Medium
Number of Rows of Balls	Double Row
Other Features	Allowable Misalignment 1.5 Deg   High Capacity Design
Long Description	15MM Bore; Shaft Mount; 42MM Outside Diameter; 17MM Inner Race Width; 17MM Outer Race Width; 2 Seals; Polyamide Cage; Double Row of Balls; ABEC 1   ISO P0; C0-Medium
Inch - Metric	Metric
Category	Self Aligning Ball Bearings
UNSPSC	31171532
Harmonized Tariff Code	8482.10.50.68
Noun	Bearing



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Keyword String	Self Aligning
Manufacturer URL	<a href="http://www.skf.com">http://www.skf.com</a>
Manufacturer Item Number	2302 E-2RS1TN9
Weight / LBS	0.261
d	0.591 Inch   15 Millimeter
Outer Race Width	0.669 Inch   17 Millimeter
D	1.654 Inch   42 Millimeter
Inner Race Width	0.669 Inch   17 Millimeter
bore diameter:	15 mm
precision rating:	Not Rated
outside diameter:	42 mm
maximum rpm:	12000 RPM
overall width:	17 mm
cage material:	Fiberglass Reinforced Nylon
bore type:	Straight
finish/coating:	Uncoated
closure type:	Double Sealed
maximum misalignment:	3 °
internal clearance:	C0
outer ring width:	17 mm
operating temperature range:	-40 to +210 ° F
fillet radius:	1 mm
dynamic load capacity:	10.8 kN
series:	2300
static load capacity:	2.6 kN
d	15 mm
D	42 mm
B	17 mm
d <sub>2</sub>	20.3 mm
D <sub>2</sub>	36.23 mm
r <sub>1,2</sub> min.	1 mm



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$d_a$ min.	20 mm
$d_a$ max.	20 mm
$D_a$ max.	36.4 mm
$r_a$ max.	1 mm
Basic dynamic load rating C	10.8 kN
Basic static load rating $C_0$	2.6 kN
Fatigue load limit $P_u$	0.14 kN
Limiting speed	12000 r/min
Permissible angular misalignment	1.5 °
Calculation factor $k_r$	0.05
Calculation factor e	0.31
Calculation factor $Y_0$	2.2
Calculation factor $Y_1$	2
Calculation factor $Y_2$	3.1
Mass bearing	0.11 kg