



### Bearing No. 6814

D	90 mm
d	70 mm
B	10 mm
C	10 mm
f0	16.1
Bore	2.756 Inch   70 Millimeter
Noun	Bearing
Mass	0.14 kg
Da max	86 mm
UNSPSC	31171504
r min.	0,6 mm
rs min	0.6 mm
da max	75,5 mm
da min	74 mm
Weight	0,137 Kg
ra max	0.6 mm
Da max.	86 mm
ra max.	0,6 mm
da min.	74 mm
series:	68
Category	Single Row Ball Bearing
Snap Ring	No
Inventory	0.0
Enclosure	Open
Size (mm)	70x90x10
Nlim (oil)	8,100 rpm
bore type:	Round
Width (mm)	10
Weight / LBS	0.301

maximum rpm:	8700 RPM
Nlim (grease)	6,900 rpm
Product Group	B00308
Inch - Metric	Metric
Cage Material	Steel
closure type:	Open
Keyword String	Ball
bore diameter:	70 mm
cage material:	Steel
fillet radius:	0.6 mm
overall width:	10 mm
Bearing number	6814
Dynamic load, C	12.1 kN
Precision Class	ABEC 1   ISO P0
Rolling Element	Ball Bearing
finish/coating:	Uncoated
Static load, C0	11.9 kN
Manufacturer URL	<a href="http://www.ntnamerica.com">http://www.ntnamerica.com</a>
Outside Diameter	3.543 Inch   90 Millimeter
Long Description	70MM Bore; 90MM Outside Diameter; 10MM Outer Race Diameter; Open; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; No Internal Special Features
Outer Race Width	0.394 Inch   10 Millimeter
outer ring width:	10 mm
inner ring width:	10 mm
bearing material:	High Carbon Chrome Steel
outside diameter:	90 mm

Weight / Kilogram	0.136
precision rating:	Class 0
Manufacturer Name	NTN
maximum rpm (oil):	8100 rpm
Internal Clearance	C0-Medium
Bore Diameter (mm)	70
Outer Diameter (mm)	90
internal clearance:	CN
snap ring included:	Without Snap Ring
Minimum Buy Quantity	N/A
maximum rpm (grease):	6900 rpm
static load capacity:	11900 N
row type & fill slot:	Single Row Non-Fill Slot
Radial clearance class	CN
dynamic load capacity:	12100 N
Fatigue limit load, Cu	0.54 kN
Harmonized Tariff Code	8482.10.50.68
(Oil) Lubrication Speed	8 100 r/min
Manufacturer Item Number	6814
Internal Special Features	No
(Grease) Lubrication Speed	6 900 r/min
manufacturer product page:	<a href="#">Click here</a>
operating temperature range:	-40 to 120 °C
Basic static load rating (C0)	11,9 kN
Basic dynamic load rating (C)	12,1 kN
Max operating temperature, Tmax	120 °C

Min operating temperature, T <sub>min</sub>	-20 °C
Maximum Capacity / Filling Slot	No
Characteristic cage frequency, FTF	0.46 Hz
Characteristic inner ring frequency, BPF <sub>I</sub>	12.83 Hz
Characteristic outer ring frequency, BPF <sub>O</sub>	11.17 Hz
Characteristic rolling element frequency, BSF	14.33 Hz