

# INA 909 thrust ball bearings

Various types and sizes to accommodate your 60x110x30 Size (mm) INA 909 thrust ball bearings requirements. 60,000 Bore Diameter (mm)

Size (mm)	60x110x30
Bore Diameter (mm)	60,000
Outer Diameter (mm)	110,000
Width (mm)	30,000
d	60,000 mm
D	110,000 mm
T	30,000 mm
d1	110 mm
D1	62 mm
Dc1	60 mm
Dc	110 mm
Dw	9 mm
Lw	9 mm
rs min	1.1 mm
Cage assembly reference	K89312
Bearing ring (inner ring) WS	WS89312
Bearing ring (outer ring) GS	GS89312
Ea	105.3 mm
Eb	68.9 mm
Mass	1.35 kg
Cage assembly mass	0.25 kg
Bearing ring (inner ring) WS mass	0.55 kg
Bearing ring (outer ring) GS mass	0.55 kg

Ca	162 kN
C0a	600 kN
Nlim (grease)	680 rpm
Nlim (oil)	2,700 rpm
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.5 Hz
Characteristic rolling element frequency, BSF	9.68 Hz
Characteristic outer ring frequency, BPF0	9.5 Hz
Characteristic inner ring frequency, BRFI	9.5 Hz
da min	105 mm
Db max	69 mm
ras max	1 mm
Inventory	0.0
Manufacturer Name	NTN
Minimum Buy Quantity	N/A
Weight / Kilogram	1.302
Product Group	B04144