Technical datasheet

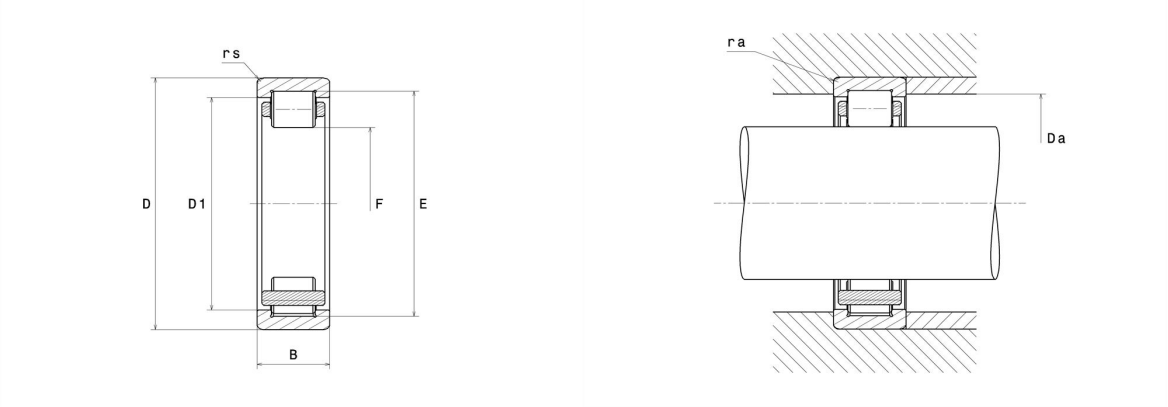
RUS309ET2X

Single row cylindrical roller bearings



Single row cylindrical roller bearing without inner ring, polyamide cage

Visual(s)



Product definition

D	100 mm
B	25 mm
E	88.5 mm
F	58.5 mm
rs min	1.5 mm
Radial clearance class	CN
Mass (without HJ ring)	0.69 kg
Brand	NTN

Product performance

Dynamic load, C	97.5 kN
Static load, C0	98.5 kN
Fatigue limit load, Cu	12 kN
Nlim (oil)	7,600 rpm
Nlim (grease)	6,500 rpm
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.4 Hz
Characteristic rolling element frequency, BSF	4.7 Hz
Characteristic outer ring frequency, BPF0	5.17 Hz
Characteristic inner ring frequency, BPFI	7.83 Hz

Abutment dimensions

Da max	92 mm
ra max	1.5 mm

Calculation factors

Equivalent dynamic radial load

$P = Fr$

Equivalent static radial load

$Po = Fr$