

PDF technical sheet 22328EKF800



Double row spherical roller bearings

Spherical roller bearing for vibratory applications, one-piece machined cage, groove and lubrication holes on outer ring, tapered bore 1:12, special C4 class clearance

Product definition	
d	5.5118 "
D	11.8110 "
B	4.0157 "
d2	7.1535 "
D1	10.2480 "
rs min	0.1575 "
Number of lubrication holes	3
b	0.7441 "
k	0.3543 "
Associated sleeve reference	H2328
e	0.33
Y1	2.03
Y2	3.02
Y0	1.98
Radial clearance class	C4 Special
Mass	120.99 oz
Brand	SNR



Product performance	
Dynamic load, C	1,540 kN
Static load, C0	1,720 kN
Fatigue limit load, Cu	129 kN
Nref	1,600 RPM
Nlim	2,200 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	392 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.30 Hz
Characteristic outer ring frequency, BPF0	6.57 Hz
Characteristic inner ring frequency, BPF1	9.43 Hz



Abutment dimensions

da min	6.1811 "
db min	5.9843 "
Ce min	0.3150 "
Da max	11.1417 "
ra max	0.1181 "

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$F_a / F_r \leq e$		$F_a / F_r > e$	
X	Y	X	Y
1	Y1	0.67	Y2

Equivalent static radial load

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
1	Y0

The values for e, Y1, Y2 and Y0 are shown in the above table .