

Angular Contact Ball Bearing

DLR Design Super precision angular contact ball bearings -**HCB7010-EDLR-T-P4S**



Designation	HCB7010-EDLR-T-P4S
Main dimensions	
d	50
D	80
B	16
Basic load ratings	
Dyn. Cr(KN)	27.5
Stat. Cor(kN)	14.7
Fatigue limit load	
Cur N	1120
Limiting speeds	
nG grease min	22000
nG oil min	34000
Dimensions	
r min.	1
r1 min.	1
BN	3.4
SN	9.3
SB	1.4
Contact angle	
a °	25
Mounting dimensions	
da h12	56
Da H12	74
ra max.	1
ra1 max.	0.3
Preload force FV	
L N	90
M N	400
H N	895
Lift-off force KaE	
L N	259
M N	1175
H N	2697
Axial rigidity ca	
L N/μm	100
M N/μm	171
H N/μm	234
Mass	
m = kg	0.206

Spindle bearing

Spindle bearings HCB70/72/718/719..-EDLR, adjusted, matched pairs or sets, contact angle $\alpha = 25^\circ$, with ceramic balls, restricted tolerances, for direct oil feed via outer ring, with inserted O rings