

Angular Contact Ball Bearing

DLR Design Super precision angular contact ball bearings -**HCB7005-CDLR-T-P4S**



Designation	HCB7005-CDLR-T-P4S
Main dimensions	
d	25
D	47
B	12
Basic load ratings	
Dyn. Cr(KN)	13.7
Stat. Cor(kN)	5.6
Fatigue limit load	
Cur N	430
Limiting speeds	
nG grease min	45000
nG oil min	70000
Dimensions	
r min.	0.6
r1 min.	0.6
BN	2.2
SN	6.6
SB	1.4
Contact angle	
a °	15
Mounting dimensions	
da h12	30
Da H12	42
ra max.	0.6
ra1 max.	0.3
Preload force FV	
L N	35
M N	132
H N	283
Lift-off force KaE	
L N	104
M N	419
H N	944
Axial rigidity ca	
L N/μm	24.6
M N/μm	42.5
H N/μm	60.2
Mass	
m = kg	0.064

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