

Angular Contact Ball Bearing

DLR Design Super precision angular contact ball bearings -**HC7005-EDLR-T-P4S**



Designation	HC7005-EDLR-T-P4S
Main dimensions	
d	25
D	47
B	12
Basic load ratings	
Dyn. Cr(KN)	5.5
Stat. Cor(kN)	2.65
Fatigue limit load	
Cur N	203
Limiting speeds	
nG grease min	53000
nG oil min	80000
Dimensions	
r min.	0.6
r1 min.	0.6
BN	2.2
SN	6.6
SB	1.4
Contact angle	
a °	25
Mounting dimensions	
da h12	30
Da H12	42
ra max.	0.6
ra1 max.	0.3
Preload force FV	
L N	23
M N	70
H N	140
Lift-off force KaE	
L N	67
M N	204
H N	415
Axial rigidity ca	
L N/μm	50.4
M N/μm	74.7
H N/μm	96.7
Mass	
m = kg	0.083

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