


DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

Specification	DSC-11-100-CO	Diagram	
Model	11		
Ratio	100		
Item	Value	Unit	
Rated torque at input 2000rpm	5	Nm	
Average torque	8.9	Nm	
Repeated peak torque	11	Nm	
Momentary peak torque	25	Nm	
Average input speed	3500	rpm	
Maximum input speed	8500	rpm	
Moment of inertia	0.012	x10 ⁻⁴ kgm ²	
Transmission accuracy	2	arc min	
Repeatability	±6	arc sec	
Maximum backlash	15	arc sec	
Hysteresis loss	2	arc min	
Lost motion	1	arc min	
Torsional Stiffness K1	0.08	kgfm/arc min	
Torsional Stiffness K2	0.1	kgfm/arc min	
No load starting torque	1.1	cNm	
No load running torque(25°C/2000rpm)	1.8	cNm	
Weight	0.05	kg	
Permissible dynamic tilting moment	-	Nm	
Permissible axial load	-	kN	
Permissible radial load	-	kN	