

DATORKER® Strain Wave Gear Technical Data

Date: 2024/11/20

| Specification | DSC-14-50-CO | Diagram | |
|--------------------------------------|---------------------|------------------------------------|--|
| Model | 14 | | |
| Ratio | 50 | | |
| Item | Value | Unit | |
| Rated torque at input 2000rpm | 5.4 | Nm | |
| Average torque | 6.9 | Nm | |
| Repeated peak torque | 18 | Nm | |
| Momentary peak torque | 35 | Nm | |
| Average input speed | 3500 | rpm | |
| Maximum input speed | 8500 | rpm | |
| Moment of inertia | 0.033 | x10 ⁻⁴ kgm ² | |
| Transmission accuracy | 1.5 | arc min | |
| Repeatability | ±6 | arc sec | |
| Maximum backlash | 36 | arc sec | |
| Hysteresis loss | 2 | arc min | |
| Lost motion | 1 | arc min | |
| Torsional Stiffness K1 | 0.1 | kgfm/arc min | |
| Torsional Stiffness K2 | 0.14 | kgfm/arc min | |
| No load starting torque | 3.3 | cNm | |
| No load running torque(25°C/2000rpm) | 3.5 | cNm | |
| Weight | 0.09 | kg | |
| Permissible dynamic tilting moment | - | Nm | |
| Permissible axial load | - | kN | |
| Permissible radial load | - | kN | |