

PRODUCT DATASHEET

ES-HG-S11-F5-R50

Precision Transmission Component

Cup Harmonic Gearboxes | Lightweight Cup Unit Type I

Product Overview

Precision Transmission Component with rated Torque 0.4 N·m, instantaneous Maximum Torque 1.8 N·m and start/Stop Peak Torque 0.9 N·m.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	0.4	N·m
Instantaneous Maximum Torque	1.8	N·m
Start/Stop Peak Torque	0.9	N·m
Reduction Ratio	50	
Backlash	≤60	arc sec
Maximum Input Speed	10000	r/min
Allowable Average Torque	0.53	N·m
Frame Size	5	
Weight	0.025	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Torque	0.4	Nm	Frame Size: 5; Reduction Ratio: 50
Instantaneous Maximum Torque	1.8	Nm	Frame Size: 5; Reduction Ratio: 50
Start/Stop Peak Torque	0.9	Nm	Frame Size: 5; Reduction Ratio: 50
Backlash	≤60	arc sec	Frame Size: 5; Reduction Ratio: 50
Allowable Average Torque	0.53	Nm	Frame Size: 5; Reduction Ratio: 50
MECHANICAL			
Frame Size	5		Frame Size: 5; Reduction Ratio: 50
Weight	0.025	kg	Frame Size: 5; Reduction Ratio: 50
Wave Generator Bore U	φ6H7 / φ5H7		Frame Size: 5; Option Index: 1; Option Label: Wave generator - A φ 6; Reduction Ratio: 50; Wave Generator Option: wave-generator-4df7ad827c47 / Frame Size: 5; Option Label: Wave generator - A φ 5; Reduction Ratio: 50; Wave Generator Option: wave-generator-9b68021d3e2c
RELIABILITY			
Design Life	10000	h	Frame Size: 5; Reduction Ratio: 50
ADDITIONAL SPECIFICATIONS			
Reduction Ratio	50		Frame Size: 5; Reduction Ratio: 50
Maximum Input Speed	10000	r/min	Frame Size: 5; Reduction Ratio: 50
Average Input Speed	6500	r/min	Frame Size: 5; Reduction Ratio: 50

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	5	
Weight	0.025	kg
Wave Generator Bore U	φ6H7 / φ5H7	

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- 01 Specifications are subject to change without notice. Verify the current product configuration before final design release.
- 02 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.