PRODUCT DATASHEET

ES-HG-S29-F8-R50

Precision Transmission Component

Ultra-Thin Harmonic Gearboxes | Ultra-Short Gear Unit

Product Overview

Precision Transmission Component with rated Torque 1.25 N·m, instantaneous Maximum Torque 4.6 N·m and start/Stop Peak Torque 2.3 N·m.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	1.25	N·m
Instantaneous Maximum Torque	4.6	N·m
Start/Stop Peak Torque	2.3	N·m
Reduction Ratio	50	
Maximum Input Speed	8000 / 8500	r/min
Allowable Average Torque	1.6	N·m
Frame Size	8	
Weight	0.06	kg
Average Input Speed	3500	r/min

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Torque	1.25	N·m	Frame Size: 8; Reduction Ratio: 50; Size: 8
Instantaneous Maximum Torque	4.6	N·m	Frame Size: 8; Reduction Ratio: 50; Size: 8
Start/Stop Peak Torque	2.3	N·m	Frame Size: 8; Reduction Ratio: 50; Size: 8
Allowable Average Torque	1.6	N·m	Frame Size: 8; Reduction Ratio: 50; Size: 8
Angle Transmission Accuracy	2	arc min	Frame Size: 8; Ratio Bucket: 50; Reduction Ratio: 50; Size: 8
Hysteresis Loss	3.5	arc min	Frame Size: 8; Ratio Bucket: 50; Reduction Ratio: 50; Size: 8
MECHANICAL			
Frame Size	8		Frame Size: 8; Reduction Ratio: 50; Size: 8
Weight	0.06	kg	Frame Size: 8; Reduction Ratio: 50; Size: 8
Wave Generator Bore U	φ5H7		Frame Size: 8; Option Label: Wave generator - A φ5; Reduction Ratio: 50; Wave Generator Option: wave-generator-9b68021d3e2c
RELIABILITY			
Design Life	8000	h	Frame Size: 8; Reduction Ratio: 50; Size: 8
ADDITIONAL SPECIFICATIONS			
Reduction Ratio	50		Frame Size: 8; Reduction Ratio: 50; Size: 8
Maximum Input Speed	8000 / 8500	r/min	Frame Size: 8; Reduction Ratio: 50 / Frame Size: 8; Reduction Ratio: 50; Size: 8
Average Input Speed	3500	r/min	Frame Size: 8; Reduction Ratio: 50; Size: 8

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	8	
Weight	0.06	kg
Wave Generator Bore U	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.