PRODUCT DATASHEET

ES-HG-S24-F11-R80

Precision Transmission Component

Hat Harmonic Gearboxes | Standard Hat Unit Type I

Product Overview

Precision Transmission Component with rated Torque 4.5 N·m, instantaneous Maximum Torque 22.5 N·m and start/Stop Peak Torque 9.9 N·m.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	4.5	N·m
Instantaneous Maximum Torque	22.5	N·m
Start/Stop Peak Torque	9.9	N·m
Reduction Ratio	80	
Backlash	≤30	arc sec
Maximum Input Speed	8500	r/min
Allowable Average Torque	8	N·m
Frame Size	11	
Weight	0.27	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Torque	4.5	N·m	Frame Size: 11; Reduction Ratio: 80
Instantaneous Maximum Torque	22.5	N·m	Frame Size: 11; Reduction Ratio: 80
Start/Stop Peak Torque	9.9	N·m	Frame Size: 11; Reduction Ratio: 80
Backlash	≤30	arc sec	Frame Size: 11; Reduction Ratio: 80
Allowable Average Torque	8	N·m	Frame Size: 11; Reduction Ratio: 80
MECHANICAL			
Frame Size	11		Frame Size: 11; Reduction Ratio: 80
Weight	0.27	kg	Frame Size: 11; Reduction Ratio: 80
Wave Generator Bore U	φ7H7 / φ5H7		Frame Size: 11; Option Index: 1; Option Label: Wave generator - A φ 6; Reduction Ratio: 80; Wave Generator Option: wave-generator-f718b59102f4 / Frame Size: 11; Option Label: Wave generator - A φ 5; Reduction Ratio: 80; Wave Generator Option: wave-generator-9b68021d3e2c
RELIABILITY			
Design Life	10000	h	Frame Size: 11; Reduction Ratio: 80
ADDITIONAL SPECIFICATIONS			
Reduction Ratio	80		Frame Size: 11; Reduction Ratio: 80
Maximum Input Speed	8500	r/min	Frame Size: 11; Reduction Ratio: 80
Average Input Speed	3500	r/min	Frame Size: 11; Reduction Ratio: 80

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	11	
Weight	0.27	kg
Wave Generator Bore U	φ7H7 / 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.