PRODUCT DATASHEET

ES-HG-S24-F14-R50

Precision Transmission Component

Hat Harmonic Gearboxes | Standard Hat Unit Type I

Product Overview

Precision Transmission Component with rated Torque 5.4 N·m, instantaneous Maximum Torque 35 N·m and start/Stop Peak Torque 18 N·m.

Key Specifications

PARAMETER	VALUE	UNIT
Rated Torque	5.4	N·m
Instantaneous Maximum Torque	35	N·m
Start/Stop Peak Torque	18	N·m
Reduction Ratio	50	
Backlash	≤20	arc sec
Maximum Input Speed	8500	r/min
Allowable Average Torque	6.9	N·m
Frame Size	14	
Weight	0.4	kg

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Rated Torque	5.4	N·m	Frame Size: 14; Reduction Ratio: 50
Instantaneous Maximum Torque	35	N·m	Frame Size: 14; Reduction Ratio: 50
Start/Stop Peak Torque	18	N·m	Frame Size: 14; Reduction Ratio: 50
Backlash	≤20	arc sec	Frame Size: 14; Reduction Ratio: 50
Allowable Average Torque	6.9	N·m	Frame Size: 14; Reduction Ratio: 50
MECHANICAL			
Frame Size	14		Frame Size: 14; Reduction Ratio: 50
Weight	0.4	kg	Frame Size: 14; Reduction Ratio: 50
Wave Generator Dimension T	9.4+0.10 / 7+0.10	mm	Frame Size: 14; Option Index: 1; Option Label: Wave generator - A φ8; Reduction Ratio: 50; Wave Generator Option: wave-generator-e6e55a341aa3 / Frame Size: 14; Option Label: Wave generator - A φ6; Reduction Ratio: 50; Wave Generator Option: wave-generator-39713db786bd
Wave Generator Bore U	φ6H7 / φ8H7		Frame Size: 14; Option Label: Wave generator - A φ6; Reduction Ratio: 50; Wave Generator Option: wave-generator-39713db786bd / Frame Size: 14; Option Index: 1; Option Label: Wave generator - A φ8; Reduction Ratio: 50; Wave Generator Option: wave-generator-e6e55a341aa3
Wave Generator Keyway W	3JS9/P9 / 2JS9/P9		Frame Size: 14; Option Index: 1; Option Label: Wave generator - A φ8; Reduction Ratio: 50; Wave Generator Option: wave-generator-e6e55a341aa3 / Frame Size: 14; Option Label: Wave generator - A φ6; Reduction Ratio: 50; Wave Generator Option: wave-generator-39713db786bd
RELIABILITY			
Design Life	10000	h	Frame Size: 14; Reduction Ratio: 50
ADDITIONAL SPECIFICATIONS			
Reduction Ratio	50		Frame Size: 14; Reduction Ratio: 50
Maximum Input Speed	8500	r/min	Frame Size: 14; Reduction Ratio: 50
Average Input Speed	3500	r/min	Frame Size: 14; Reduction Ratio: 50

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Frame Size	14	
Weight	0.4	kg
Wave Generator Dimension T	9.4+0.10 / 7+0.10	mm
Wave Generator Bore U	φ6H7 / φ8H7	
Wave Generator Keyway W	3JS9/P9 / 2JS9/P9	

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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.